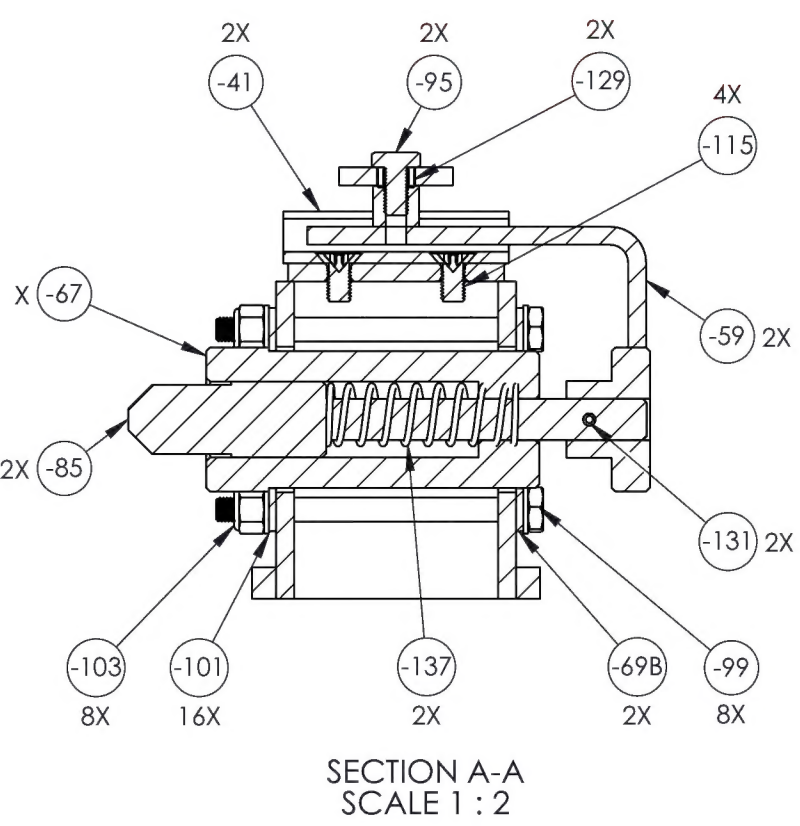
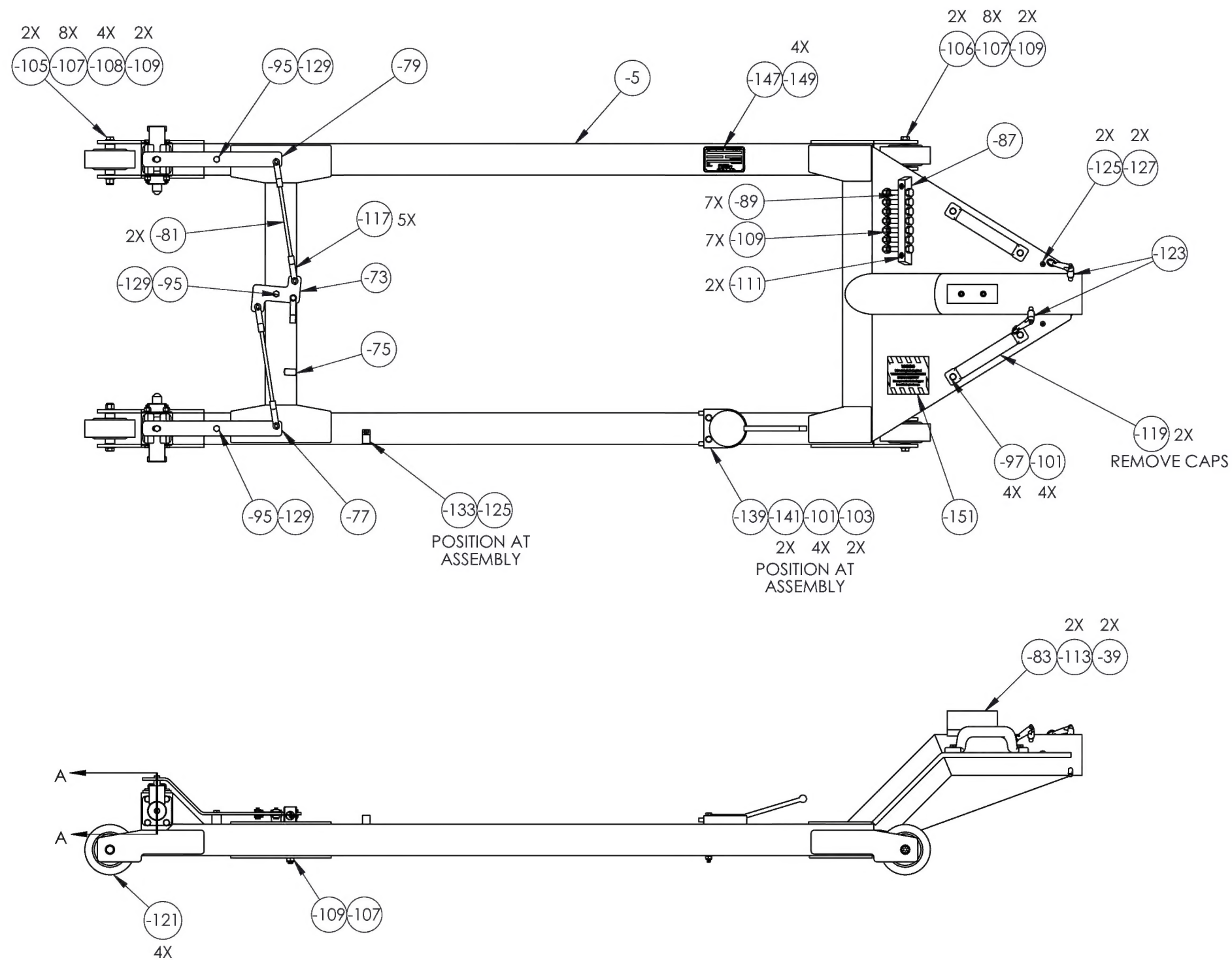


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SEE ATTACHED DEVIATION




TITLE TOW BAR, (FLIR)			
DWG NO. RBW0905G10331-3G-03			REV 2
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1		DRAWN BY: CLOUGH APPROVED: D Weil TREAT FINISH SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL AW139	
SCALE 1:10	DATE 11/28/2012	SHEET 1 OF 43	

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SEE ATTACHED DEVIATION

ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			X		-5	1		FRAME WELDMENT			3
			X	1	-6			TUBE WELDMENT			4
			1		-7			FRONT CROSSBAR	6061	3/16 WALL X 2-1/2 X 2-1/2 X 23-15/16	5
				1	-9			REAR CROSSBAR	6061	3/16 WALL X 2-1/2 X 2-1/2 X 19	6
				1	-11			LEG	6061	3/16 WALL X 2-1/2 X 2-1/2 X 58-1/2	7
				4	-13			REAR GUSSET	6061	3/16 X 3 X 8-1/8	8
				4	-15			FRONT GUSSET	6061	3/16 X 2-7/8 X 5-1/8	9
				1	-17			LEG	6061	3/16 WALL X 2-1/2 X 2-1/2 X 58-1/2	10
				2	-19			LEG	6061	3/16 WALL 2-1/2 X 2-1/2 X 5-1/8	11
				2	-21			UPRIGHT GUSSET	6061	3/16 WALL X 2-1/2 X 2-1/2 X 3-11/16	
			1		-23			RIGHT ANGLE PLATE	6061	3/8 X 10-1/4 X 20	13
			1		-25			LEFT ANGLE PLATE	6061	3/8 X 10-1/4 X 20	14
			1		-27			TUBE	6061	Ø3-1/4 X 1/4 X 10-1/4	15
			1		-29			FRAME TUBE	6061	Ø3-1/4 X 1/4 X 11-7/8	16
			1		-31			TONGUE GUSSET	6061	3/8 X 3-3/8 X 16-1/8	17
				2	-33			MOUNT PLATE	6061	3/16 X 2-1/4 X 2-1/2	18
			1		-35			BLOCK PAD	6061	1/8 X 3/4 X 1-1/2 X 4-1/8	19
				3	-37			RISER	6061	Ø3/4 X 7/8	20
					B/O -39	2		RIVET NUT	STEEL	1/4-20 MCMaster-CARR #98560A571	3
		X			-41	2		GUIDE WELDMENT			21
		1			-43			GUIDE PLATE	1018	.120 X 2 X 2-1/2	22
		2			-45			GUIDE	C.R. STEEL	14ga. X 1-3/16 X 2-1/2	23
				6	-48			WHEEL BRACKET	6061	1/4 X 3 X 8-5/8	24
				1	-54			R FRT. INSIDE WHEEL BRACKET	6061	1/4 X 2-5/8 X 5-7/8	25
				1	-56			L FRT. INSIDE WHEEL BRACKET	6061	1/4 X 2-5/8 X 5-7/8	26
	X				-59	2		PIN SLIDE WELDMENT			27
	1				-61			BUSHING	1018	Ø1/2 X 7/16	28
	1				-63			PIN ATTACHMENT	1018	Ø1-3/4 X 1	29
	1				-65			SLIDE BAR	1018	3/16 X 1-1/4 X 4-3/8	30
X					-67	2		PIN HOUSING WELDMENT			31
1					-69A			HOUSING PLATE	1018	14 ga X 2-1/2 X 2-1/2	32
					-69B	2		HOUSING PLATE	1018	14 ga. 2-1/2 X 2-1/2	32
1					-71			PIN HOUSING	1018	Ø1-1/2 X 3-5/8	33
					-73	1		BELL CRANK	6061	3/16 X 3-1/4 X 3-7/8	34
					-75	1		CABLE BOLT	12L14	Ø3/4 X 4-5/8	35
					-77	1		TRANSFER BAR (RIGHT)	6061	3/6 X 1-3/16 X 12-3/16	36
					-79	1		TRANSFER BAR (LEFT)	6061	3/16 X 1-3/16 X 12-3/16	37
					-81	2		SLIDE LINKAGE ROD	12L14	Ø1/4 X 7-1/16	38
					B/O -83	1		PAD	URETHANE 60A	1-1/2 X 1-1/2 X 4-1/8 MCMaster CARR #8644K24	39
					-85	2		PIN	4140	Ø1 X 5-5/8	40
					-87	1		TONGUE SHEER BOLT HOLDER	6061	3/4 X 3/4 X 7-1/8	41
					-89	7		TONGUE SHEAR BOLT		REDBARN #RBW0905G01652-3G	1
ASSY -67	ASSY -59	ASSY -41	ASSY -6	ASSY -5							

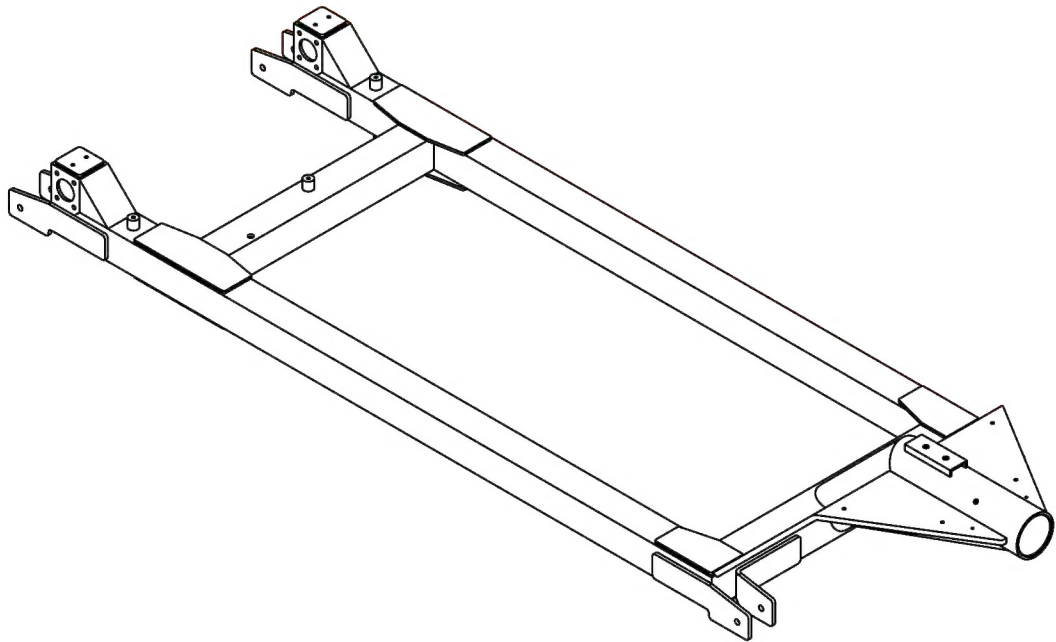
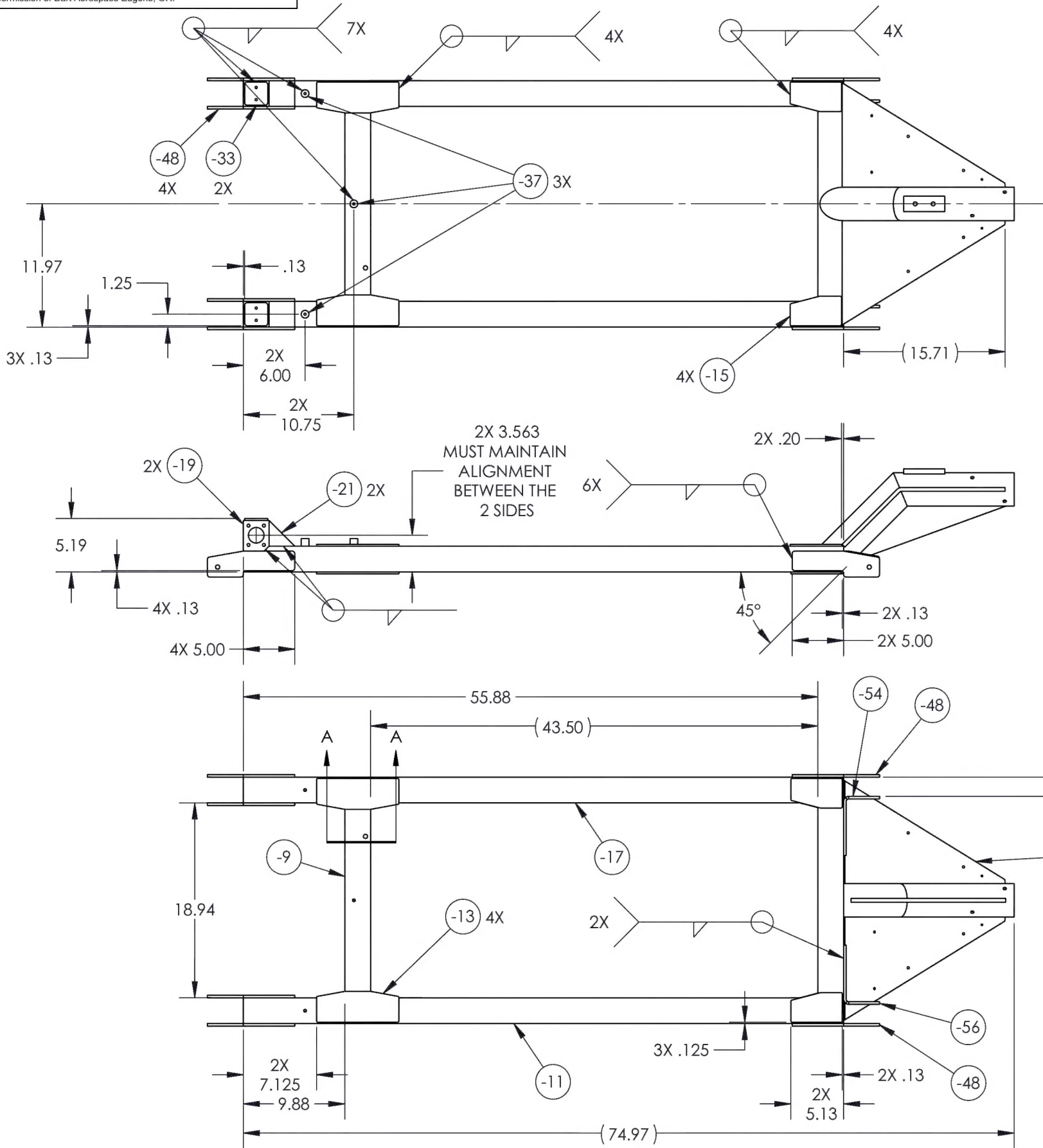
ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
					B/O	-95	5	HEX HEAD CAP SCREW	STEEL	1/4-28 UNF X 1/2 MCMaster-CARR #92620A562	1
					B/O	-97	4	HEX HEAD CAP SCREW	STEEL	1/4-28 UNF X 3/4 MCMaster-CARR #92620A563	1
					B/O	-99	8	HEX HEAD CAP SCREW	STEEL	1/4-28 UNF X 3-1/4 MCMaster-CARR #91257A574	1
					B/O	-101	24	FLAT WASHER	STEEL	Ø1/4 MCMaster-CARR #94744A240	1
					B/O	-103	10	HEX LOCKNUT	STEEL	1/4-28 UNF MCMaster-CARR #95615A130	1
					B/O	-105	2	HEX HEAD CAP SCREW	STEEL	3/8-24 UNF X 3-19/32 AIRCRAFT SPRUCE #AN6-34A	1
					B/O	-106	2	HEX HEAD CAP SCREW	STEEL	3/8-24 UNF X 3-3/32 AIRCRAFT SPRUCE #AN6-30A	1
					B/O	-107	17	FLAT WASHER	STEEL	Ø3/8 MCMaster-CARR #94744A265	1
					B/O	-108	4	UNTHREADED SPACER	BRASS	Ø3/4 O.D. X 3/8 MCMaster-CARR #90309A523	1
					B/O	-109	12	NYLON INSERT LOCKNUT	STEEL	3/8-24 UNF MCMaster-CARR #97135A235	1
					B/O	-111	2	SOCKET HEAD CAP SCREW	STEEL	1/4-28 UNF X 3/4 MCMaster-CARR #92562A588	1
					B/O	-113	2	SOCKET HEAD CAP SCREW	STEEL	1/4-20 UNC X 1-1/8 MCMaster-CARR #91251A560	1
					B/O	-115	4	FLAT HEAD SCREW	STEEL	1/4-28 UNF X 1/2 MCMaster-CARR #90273A557	1
					B/O	-117	5	CLEVIS ROD END	STEEL	1/4-28 UNF X 2 MCMaster-CARR #6071K120	1
					B/O	-119	2	PULL HANDLE	STEEL	1 X 2-1/16 X 6-5/16 MCMaster-CARR #1973A100	1
					B/O	-121	4	CASTER WHEEL	POYURETHANE	Ø4 X 1-1/4 MSC #65366338	1
					B/O	-123	2	L-HANDLE BALL LOCK PIN	S.S.	Ø5/16 X 3-1/4 CARR-LANE #CL-5-BLPL-3.50-S-C	1
					B/O	-125	3	PAN HEAD SCREW	STEEL	10-32 X 3/8 MCMaster-CARR #96880A513	1
					B/O	-127	2	LANYARD	NYLON COATED STEEL	12" CABLE MCMaster-CARR #30345T24	1
						-129	5	SLEEVE	BRONZE	1/4 I.D. X 3/8 O.D. X 1/4 MCMaster-CARR #1688K4 (MOD.)	42
					B/O	-131	2	ROLL PIN	STEEL	Ø1/8 X 3/4 MCMaster-CARR #90692A698	1
					B/O	-133	1	LOOP CLAMP	ALUMINUM	Ø1/2 OD MCMaster-CARR #3177T12	1
					B/O	-135	2	WASHER	STEEL	Ø1/4 MCMaster-CARR #91090A107	39
					B/O	-137	2	COMPRESSION SPRING	SPRING STEEL	OD Ø3/4 X 2 CENTURY SPRING #10735	1
					B/O	-139	1	CABLE ASSEMBLY		CABLECRAFT #CA292-3-UT-1-45	1
					B/O	-141	2	HEX HEAD CAP SCREW	STEEL	14-28 UNF X 3-3/4 MCMaster-CARR #91247A027	1
					B/O	-147	1	DART PLACARD	ALUMINUM	1/32 X 2-1/8 X 3-3/8	
					B/O	-149	4	#2 DRIVE SCREW	COATED STEEL	1/8 MCMaster-CARR #90081A074	
					B/O	-151	1	WARNING STICKER WITH ADHESIVE BACK	VINYL	SIGNS NOW	
ASSY -67	ASSY -59	ASSY -41	ASSY -6	ASSY -5							

<div></div>			
TITLE TOW BAR, (FLIR)			
DWG NO. RBW0905G10331-3G-03			REV 2
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1		DRAWN BY: CLOUGH APPROVED <i>D Weil</i> HEAT TREAT FINISH SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		USED ON MODEL AW139	
SCALE 1:12		DATE 11/28/2012	SHEET 2 OF 43

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-5 DELETED -7, -23, -25, -27, -29 & -31 FROM -5 WELDMENT & ADDED -6 WELDMENT. ADDED NEW DEIGN WHEEL BRACKETS -48, -54 & -56.	1/25/2013	RJC	SE
2	14-0167	-5 CH'D SPACING FOR -54 & -56 FRONT INSIDE WHEEL BRACKETS & ADDED DIM, WAS 2.500 IS 1.87. REMOVED -35 & -39 FROM WELDMENT.	9/30/2014	DPD	JAG

SEE ATTACHED DEVIATION



(5)

FRAME WELDMENT

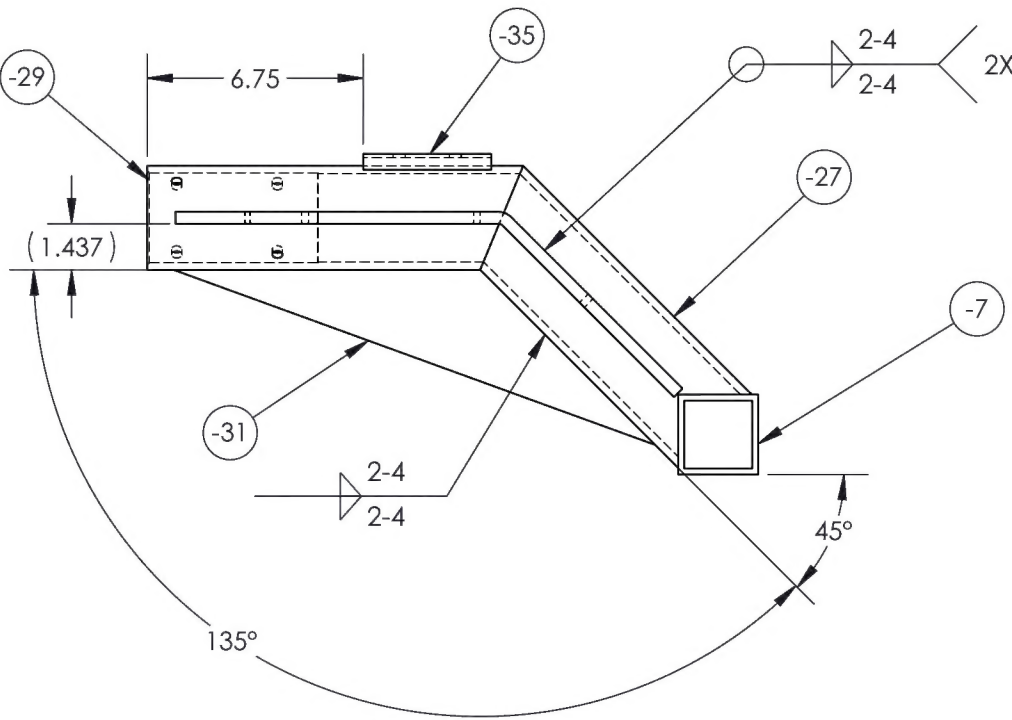
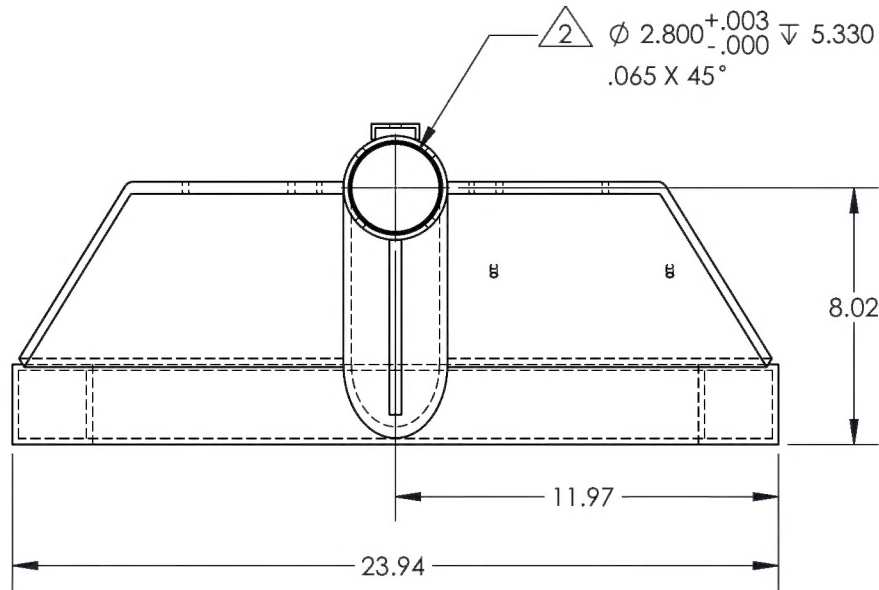
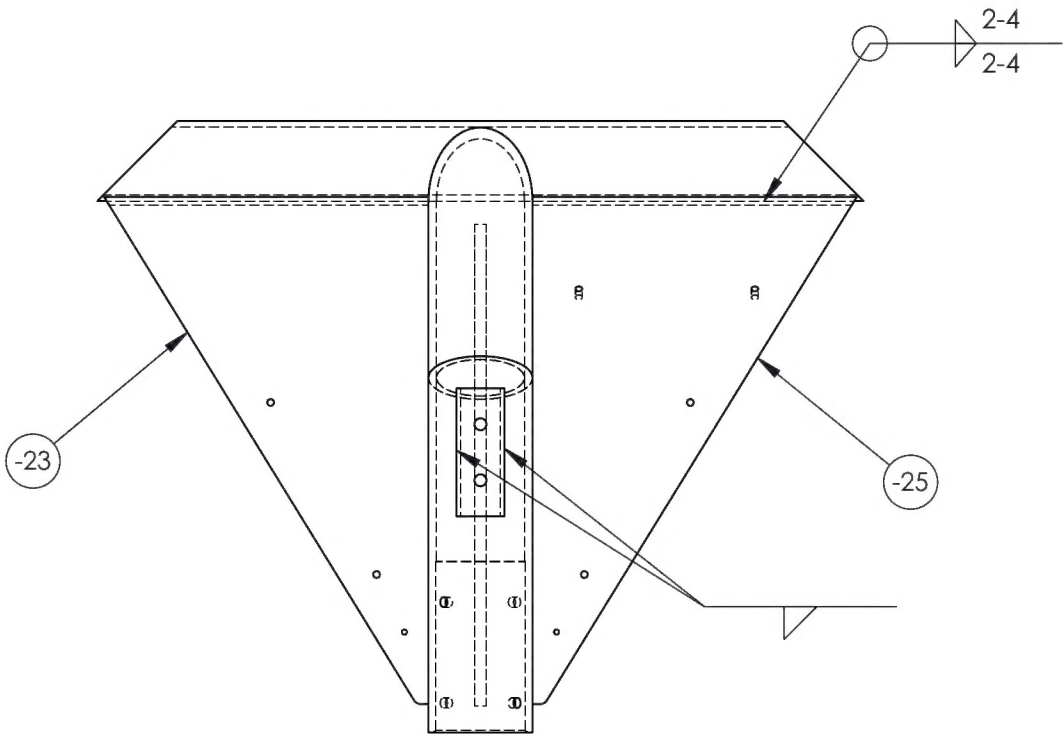
SECTION A-A  
SCALE 1 : 6

DART AEROSPACE			
TITLE TOW BAR, (FLIR)			
DWG NO. RBW0905G10331-3G-03-5			REV 2
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 .XX ± .01 .X ± .1		DRAWN BY: CLOUGH APPROVED: <i>D Well</i> HEAT TREAT FINISH: POWDER COAT YELLOW SPEC: FED # 13538 USED ON MODEL AW139	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		SCALE 1:12	
DATE 11/19/2012		SHEET 3 OF 43	

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REVISIONS			DATE	INITIAL	APPROVED
REV	ECR	DESCRIPTION			
1		-6 ADDED WELDMENT.	1/25/2013	RJC	SE
2	14-0167	-6 ADDED -35 TO WELDMENT.	9/30/2014	DPD	JAG

SEE ATTACHED DEVIATION



-6

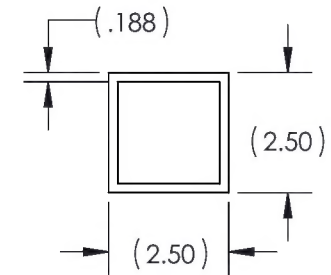
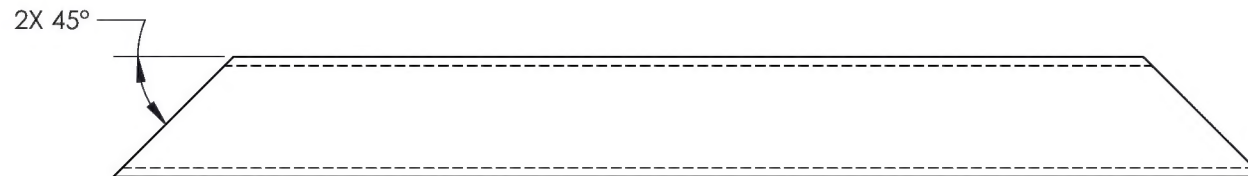
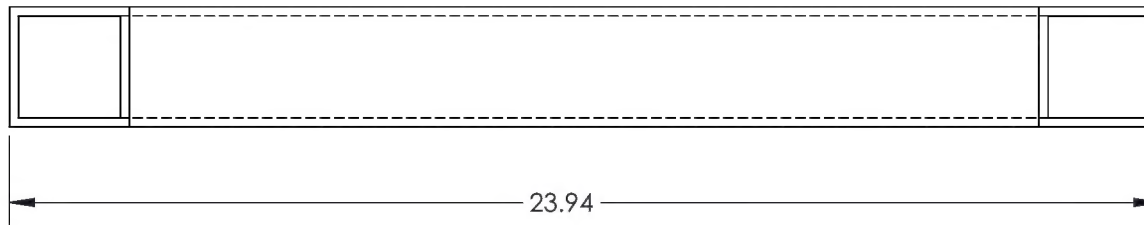
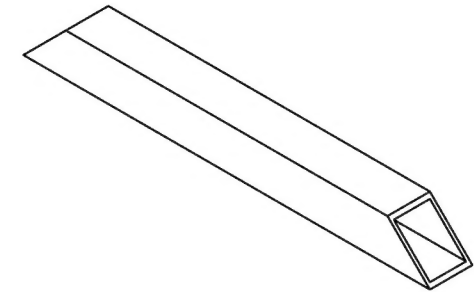
TUBE WELDMENT

NOTE:  
1. WELD -7, -23, -25, -27, -29, AND -31 TOGETHER.  
2. BORE AFTER WELDING.

DART AEROSPACE		
TITLE TOW BAR, (FLIR)		
DWG NO. RBW0905G10331-3G-03-6		REV 2
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		DRAWN BY: CLOUGH APPROVED D Weil TREAT FINISH SEE -5 WELDMENT SPEC USED ON MODEL AW139
SCALE 1:6	DATE 1/22/2013	SHEET 4 OF 43

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-7 DELETED 2X Ø.266 HOLES & 2X 1/4-28 HOLES, NO LONGER NEEDED WITH NEW DESIGN OF WHEEL BRACKETS.	1/18/2013	RJC	SE



**SEE ATTACHED DEVIATION**

⑦

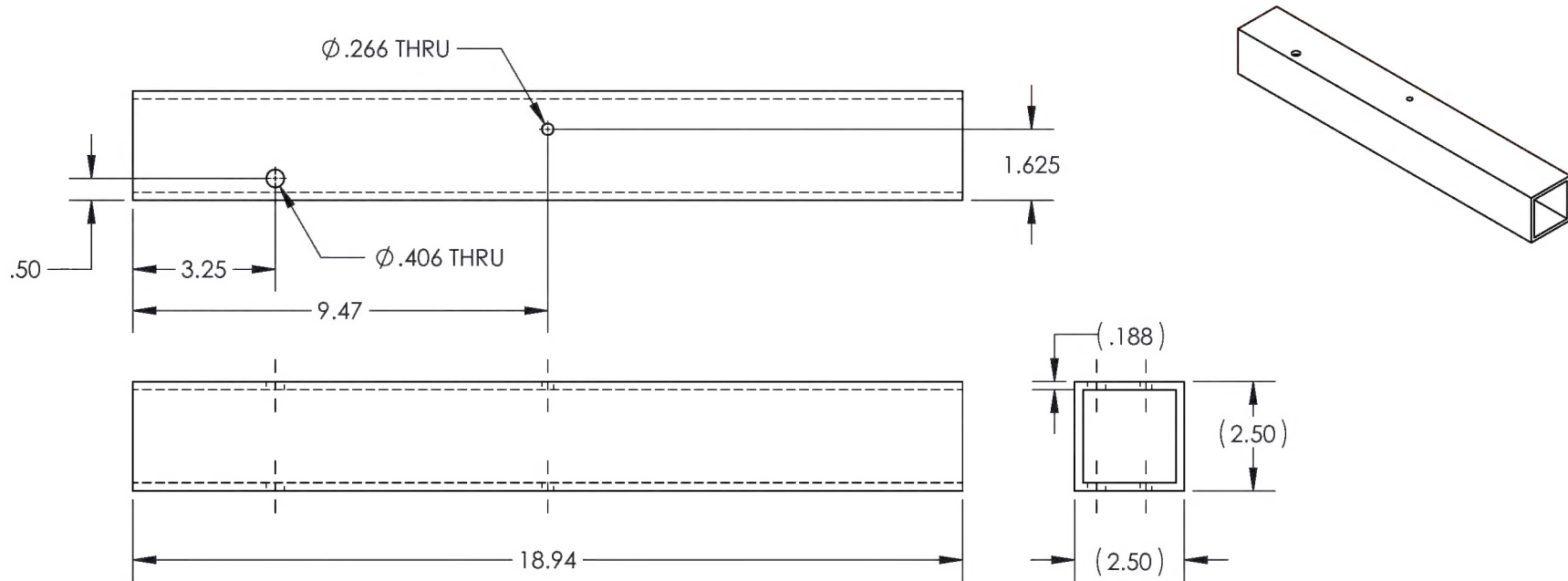
FRONT CROSSBAR

<b>DART AEROSPACE</b>	
TITLE TOW BAR, (FLIR)	
DWG NO. RBW0905G10331-3G-03-7	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:4	DATE 11/19/2012
SHEET 5 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-9 CH'D Ø.397 THRU HOLE LOCATION FROM .450 TO .500.	1/25/2013	RJC	SE

**SEE ATTACHED DEVIATION**

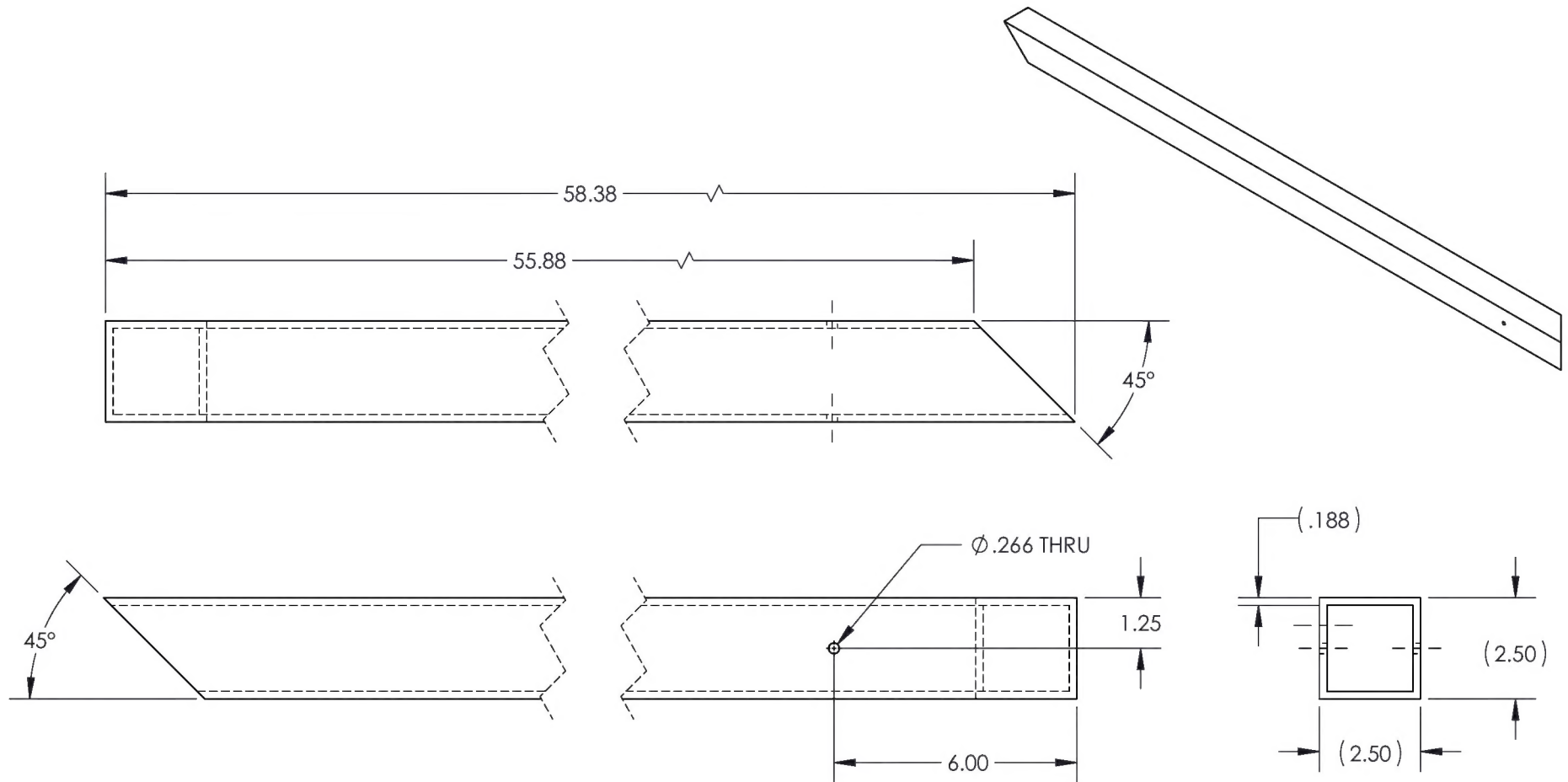


(-9)  
REAR CROSSBAR

<b>DART AEROSPACE</b>	
TITLE TOW BAR, (FLIR)	
DWG NO. RBW0905G10331-3G-03-9	REV 2
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:4	DATE 11/19/2012
SHEET 6 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-11 DELETED Ø.266 THRU HOLES THAT WERE USED FOR FRONT (-53) & REAR (-47) WHEEL BRACKETS.	1/18/2013	RJC	SE



**SEE ATTACHED DEVIATION**

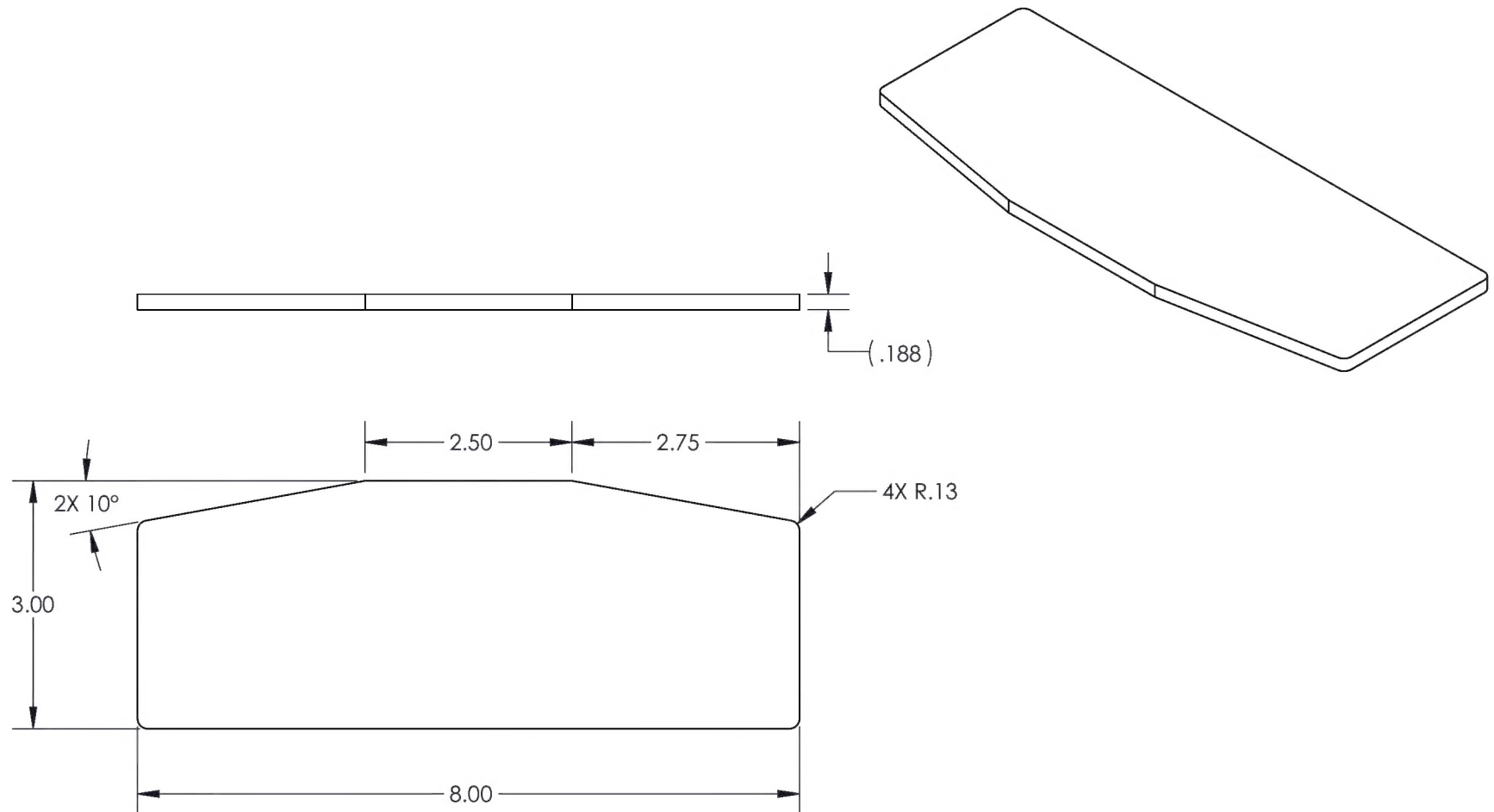
(11)

LEG

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-11</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:4	DATE 11/19/2012
SHEET 7 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



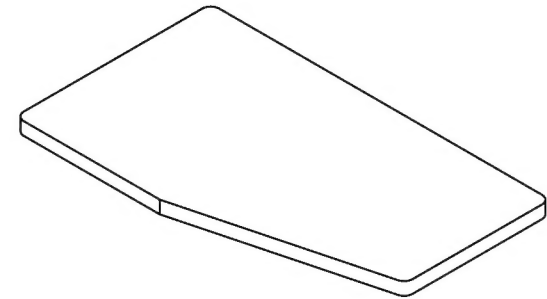
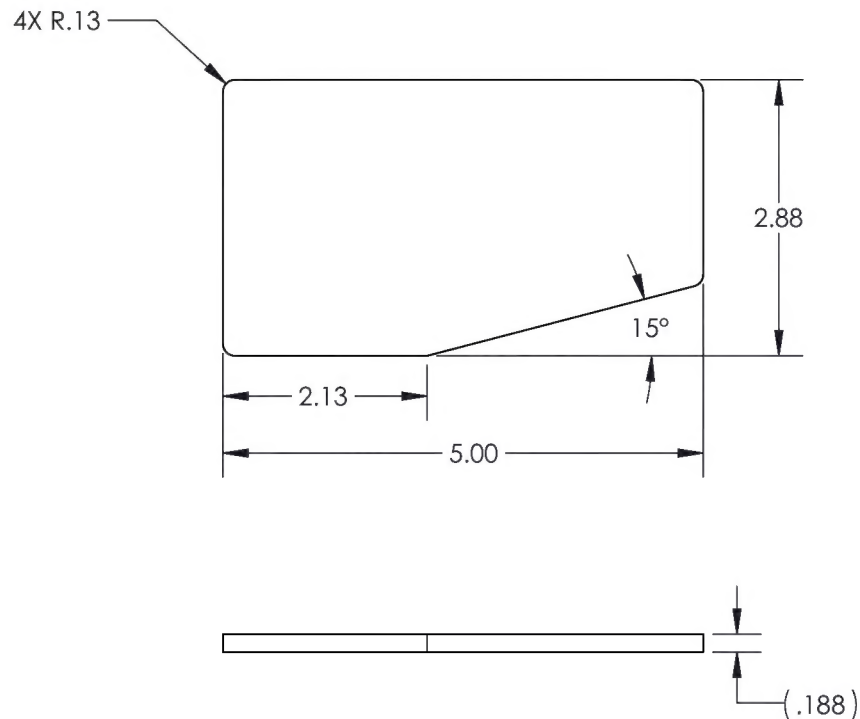
**SEE ATTACHED DEVIATION**

(-13)  
REAR GUSSET

<b>DART AEROSPACE</b>	
TITLE TOW BAR, (FLIR)	
DWG NO. RBW0905G10331-3G-03-13	REV 2
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010	HEAT TREAT
.XX ± .03	FINISH SEE -5 WELDMENT
.X ± .1	ANGLES ± .5°
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL AW139
SCALE 1:2	DATE 11/19/2012
SHEET 8 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-15 DELETED TABLE FOR -15A & -15B CONFIGURATIONS, REDESIGNED WHEEL BRACKETS, DELETED THREADED HOLES NOT NEEDED.	1/18/2013	RJC	SE



**SEE ATTACHED DEVIATION**

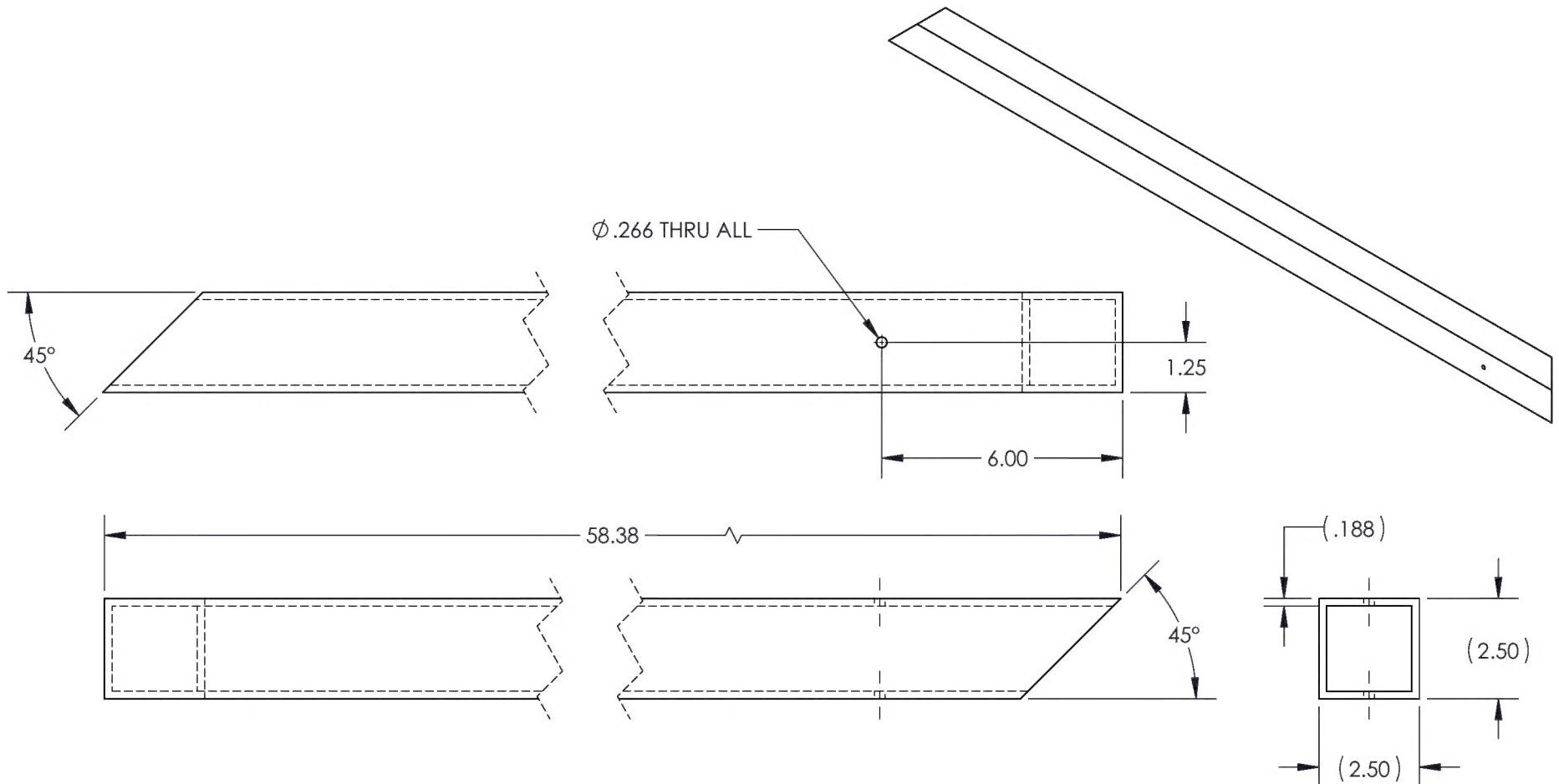
(-15)

FRONT GUSSET

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-15</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .03 ANGLES ± .5°	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 11/19/2012
SHEET 9 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-17 DELETED Ø.266 THRU HOLES THAT WERE USED FOR REAR WHEEL BRACKET -47.	1/18/2013	RJC	SE



**SEE ATTACHED DEVIATION**

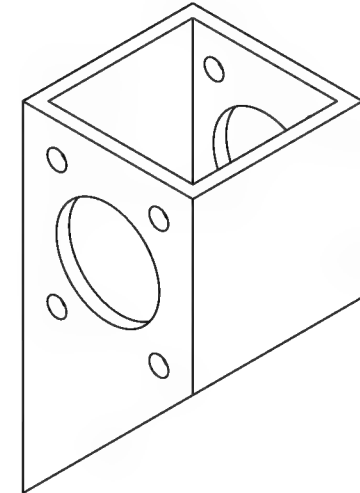
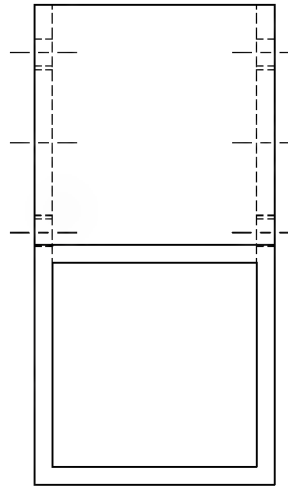
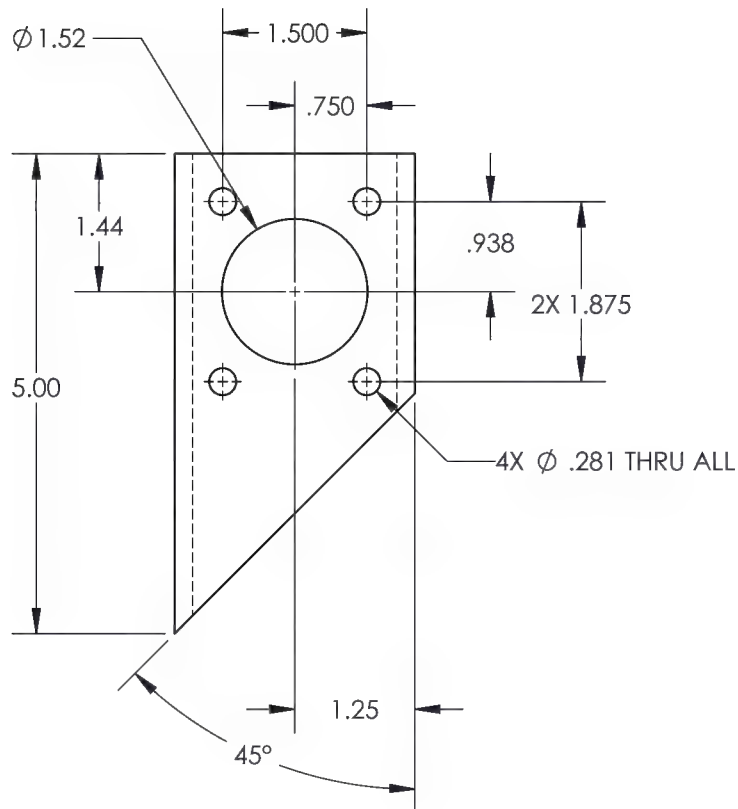
(17)

LEG

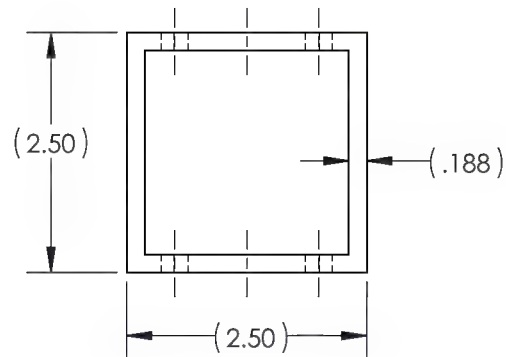
<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-17</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:4	DATE 11/19/2012
SHEET 10 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-19 DELETED 2X 1/4-28 HOLES, CH'D HOLE CLEARANCE FROM 4X Ø.257 TO Ø.281.	1/18/2013	RJC	SE



**SEE ATTACHED DEVIATION**



(-19)

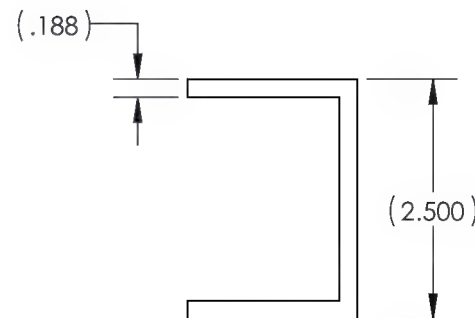
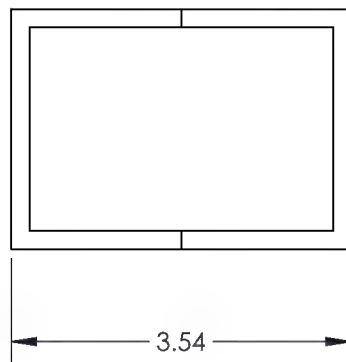
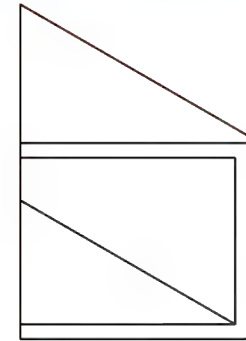
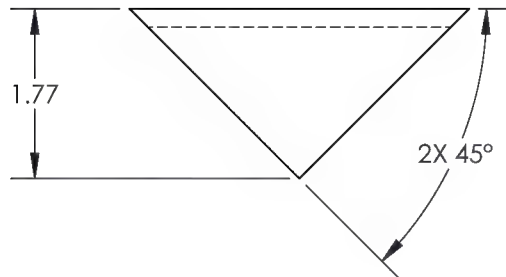
LEG

<b>DART</b> AEROSPACE	
TITLE TOW BAR, (FLIR)	
DWG NO. RBW0905G10331-3G-03-19	REV 2
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 11/19/2012
SHEET 11 OF 43	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

**SEE ATTACHED DEVIATION**



(-21)

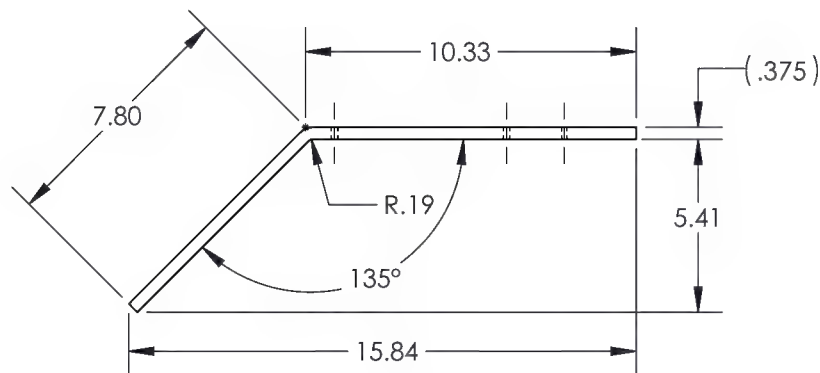
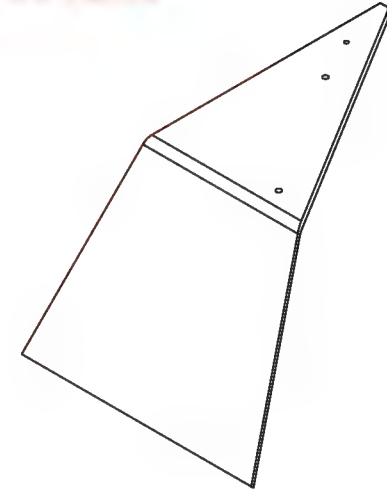
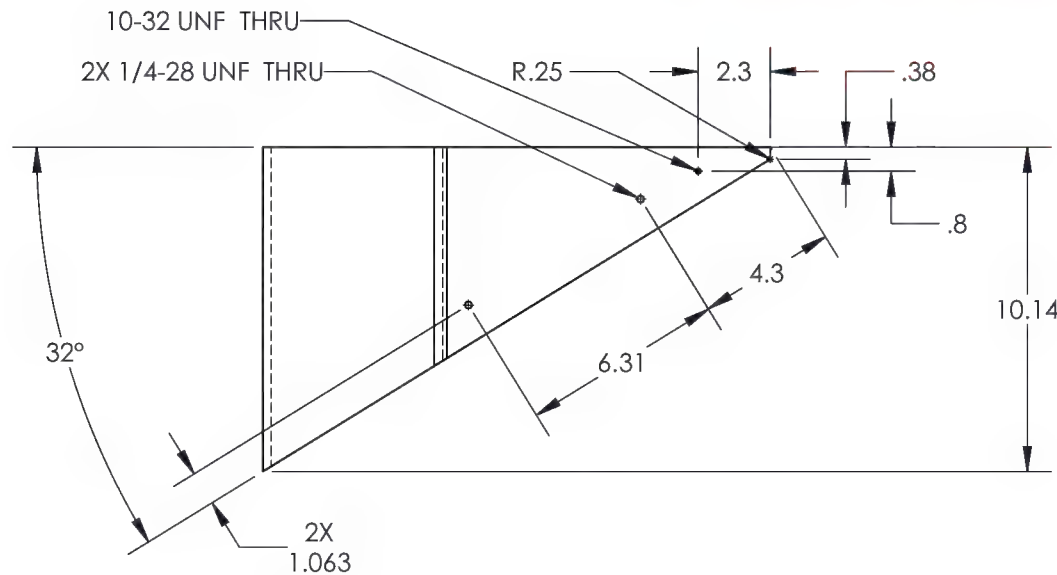
UPRIGHT GUSSET

<b>DART AEROSPACE</b>	
TITLE TOW BAR, (FLIR)	
DWG NO. RBW0905G10331-3G-21	REV 2
MAT'L 6061	DRAWN BY:
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	AW139
SCALE 1:2	DATE
	SHEET 12 OF 43

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-23 DELETED 45° ANGLE FROM BOTTOM OF PART.	1/22/2013	RJC	SE
2	14-0167	-23 DELETED DIMS 9.421, 4.047, 1.623, 4.933. CH'D DIMS WAS (4.30) IS 4.30, WAS (6.313) IS 6.313, WAS (2X 1.063) IS 2X 1.063.	10/22/2014	DPD	JAG

**SEE ATTACHED DEVIATION**

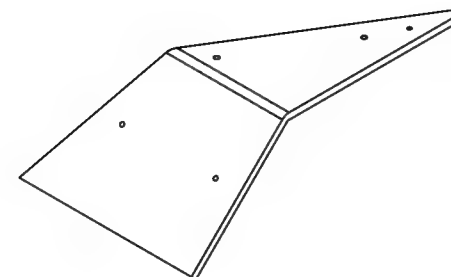
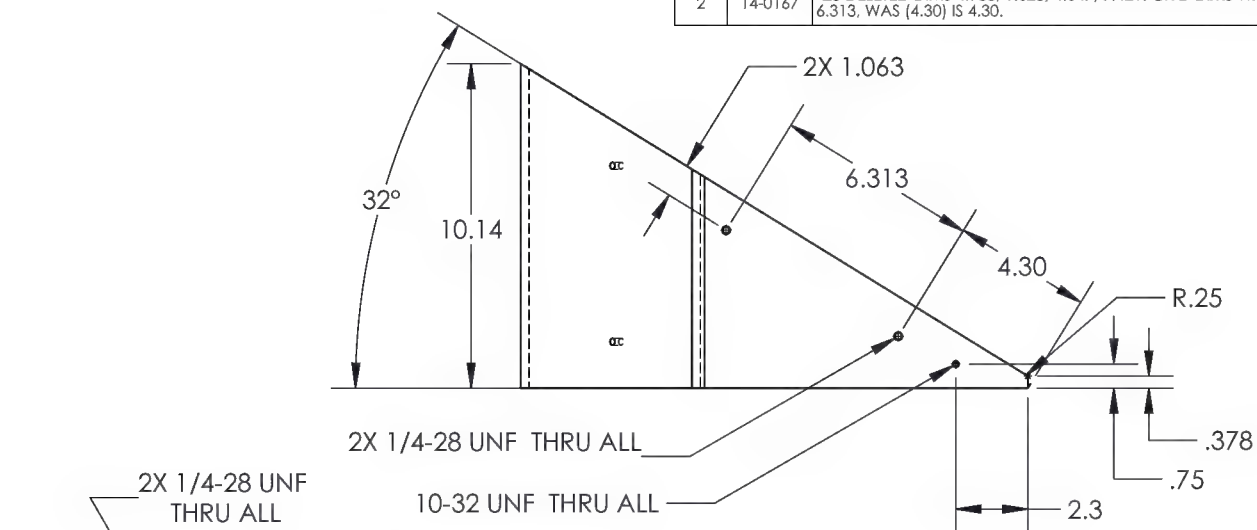


(-23)

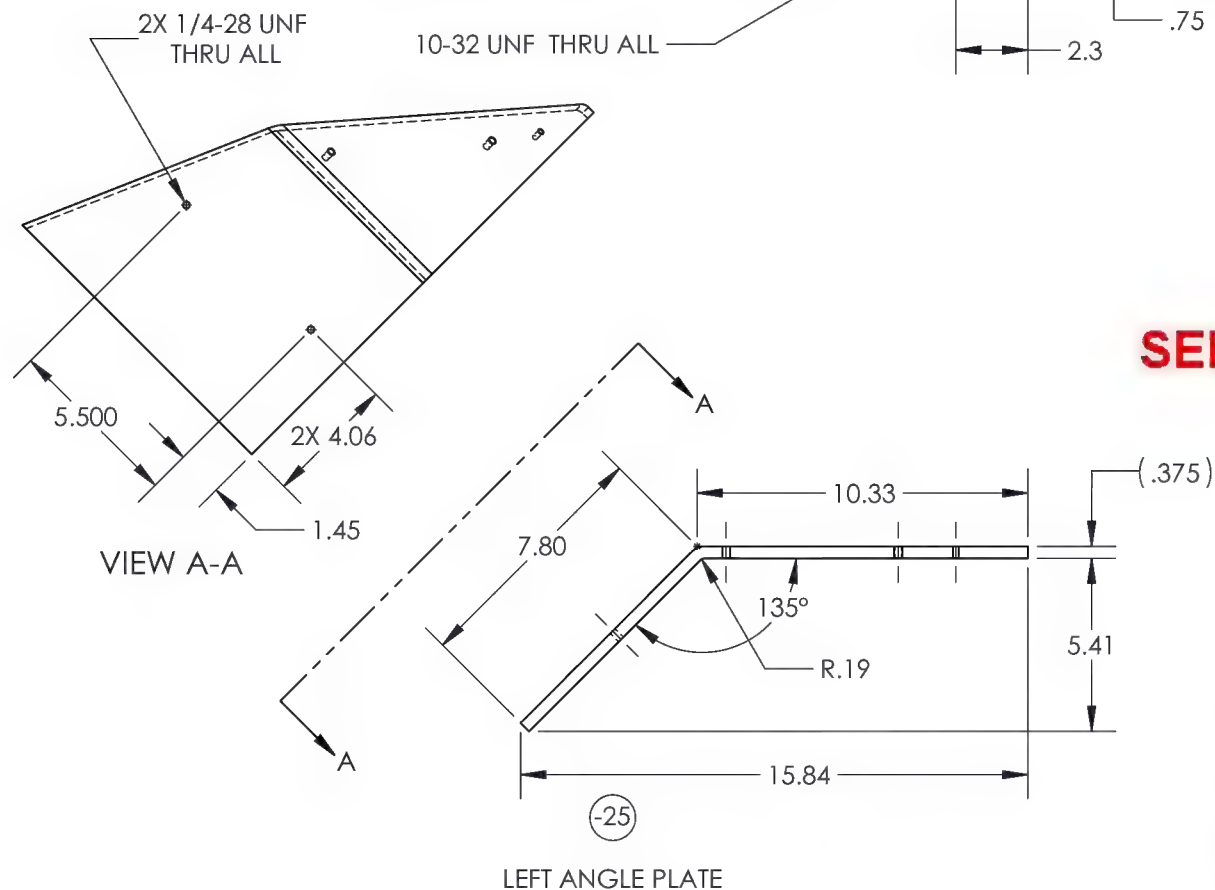
RIGHT ANGLE PLATE


<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-23</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .03 ANGLES ± 5°	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:6	DATE 11/19/2012
SHEET 13 OF 43	

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		<b>-25</b> DELETED 45° ANGLE FROM BOTTOM OF PART.	1/22/2013	RJC	SE
2	14-0167	<b>-25</b> DELETED DIMS 4.933, 1.623, 4.047, 9.421. CH'D DIMS WAS (2X 1.063) IS 2X 1.063, WAS {6.313} IS 6.313, WAS (4.30) IS 4.30.	10/22/2014	DPD	JAG



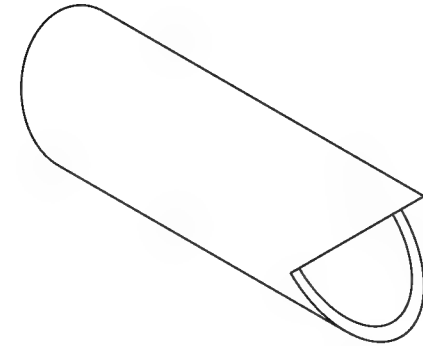
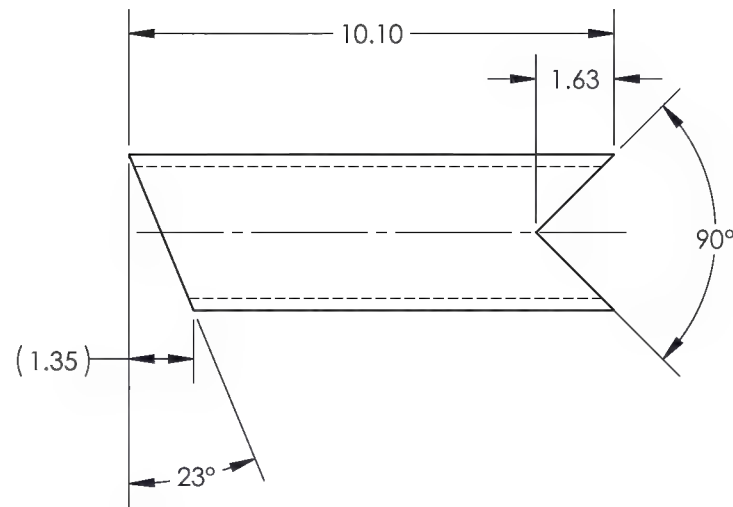
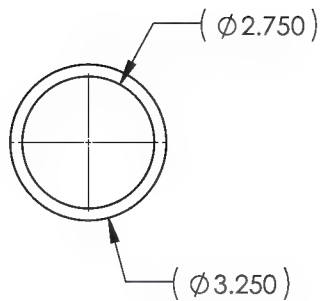
**SEE ATTACHED DEVIATION**



			
TITLE TOW BAR, (FLIR)			
DWG NO. RBW0905G10331-3G-03-25			REV 2
MAT'L 6061		DRAWN BY: CLOUGH	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		APPROVED <i>D Weil</i>	
XXX ± .010	FRACTIONS ± 1/8	HEAT TREAT	
XX ± .03	ANGLES ± 5°	FINISH SEE -5 WELDMNT	
X ± .1		SPEC	
1. BREAK ALL SHARP EDGES .015 x .45" OR .015R		USED ON MODEL	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING		AW139	
SCALE 1:6	DATE 11/19/2012	SHEET 14 OF 43	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



**SEE ATTACHED DEVIATION**

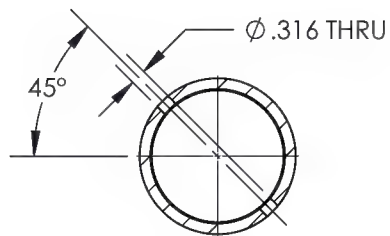
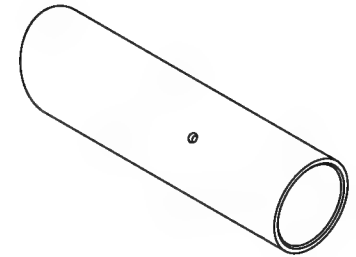
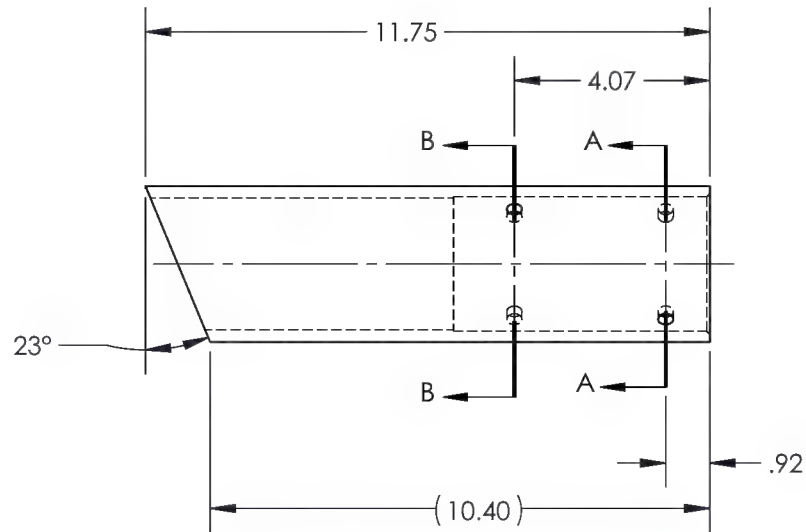
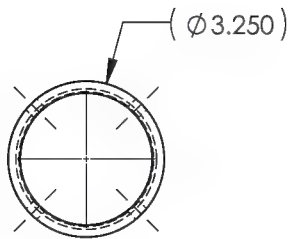
(-27)

TUBE

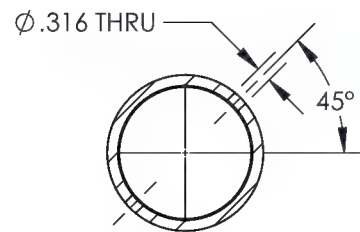
<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. RBW0905G10331-3G-03-27	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:6	DATE 11/19/2012
SHEET 15 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-29 CH'D ID FROM Ø(2.750) TO Ø2.800 +.0025-.0000 ∇ 5.330 TO BE BORED AFTER WELD. FLIPPED SECTION B-B VIEW, ADDED DETAIL C.	1/18/2013	RJC	SE



SECTION B-B  
SCALE 1 : 4



SECTION A-A  
SCALE 1 : 4

(-29)

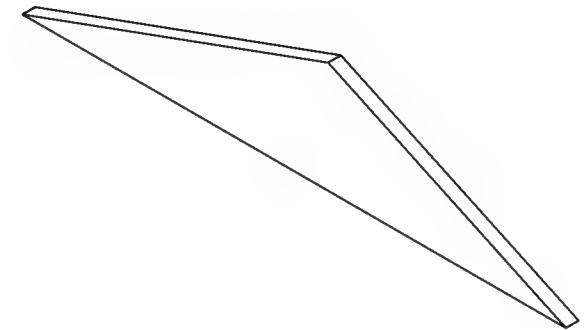
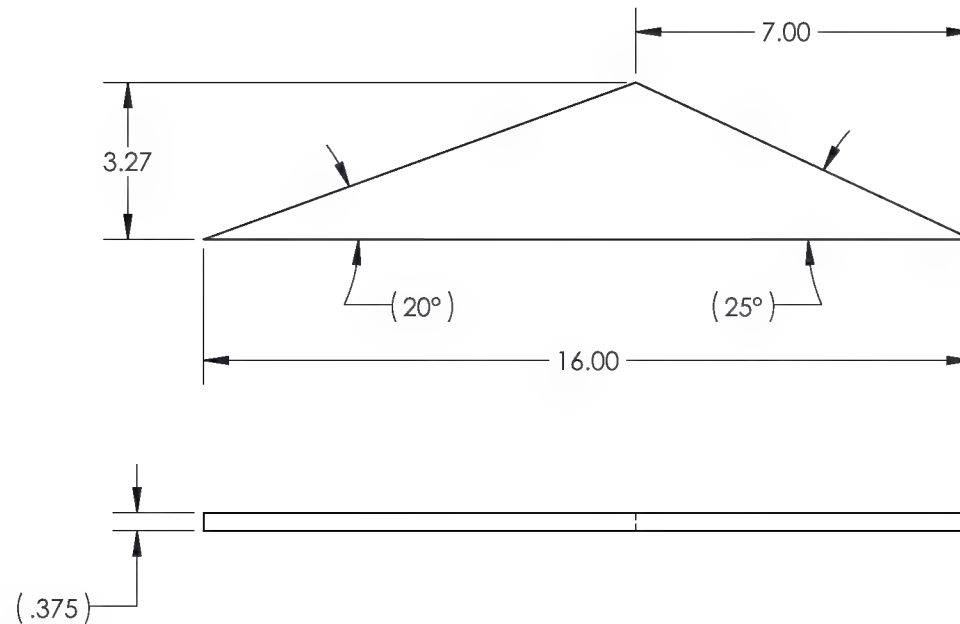
FRAME TUBE

**SEE ATTACHED DEVIATION**

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-29</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:6	DATE 11/19/2012
SHEET 16 OF 43	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



**SEE ATTACHED DEVIATION**

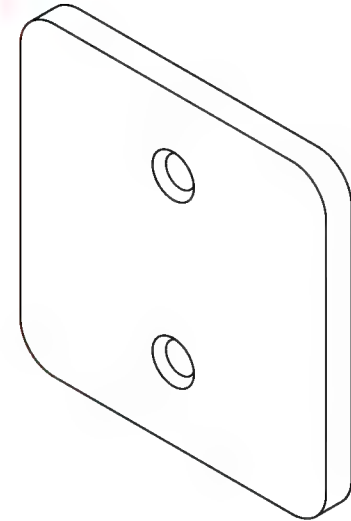
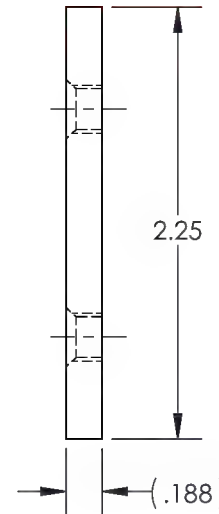
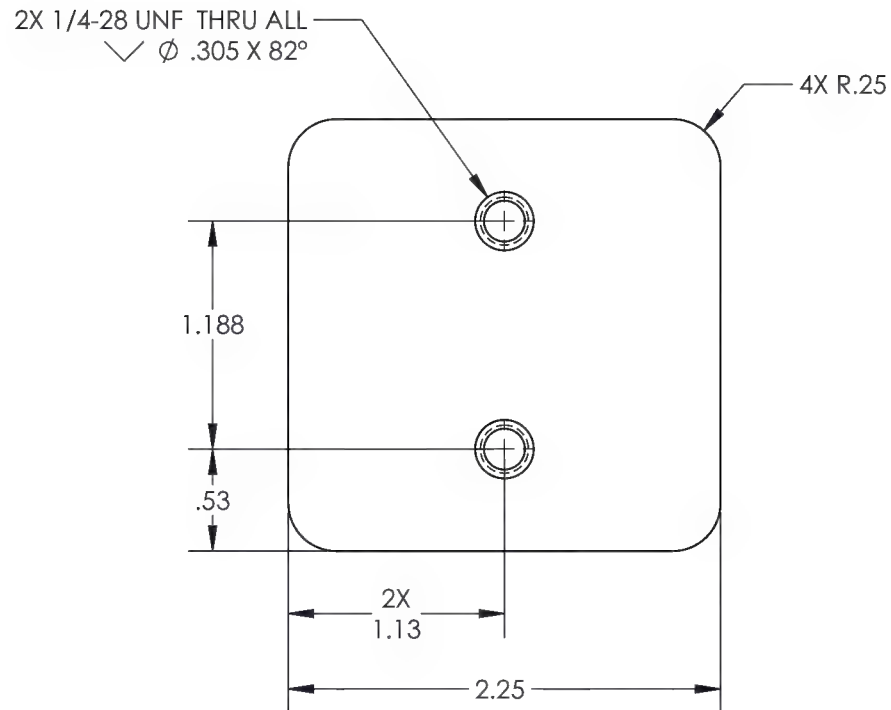
(-31)  
TONGUE GUSSET

<b>DART AEROSPACE</b>	
TITLE TOW BAR, (FLIR)	
DWG NO. RBW0905G10331-3G-03-31	REV 2
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .03 ANGLES ± 5°	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:4	DATE 11/19/2012
SHEET 17 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-33 ADDED COUNTERSINK TO 1/4-28 UNF HOLE CALLOUT.	1/23/2013	RJC	SE

**SEE ATTACHED DEVIATION**



(-33)

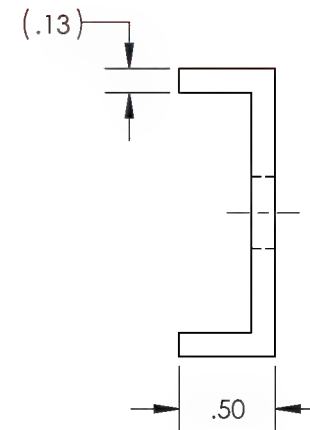
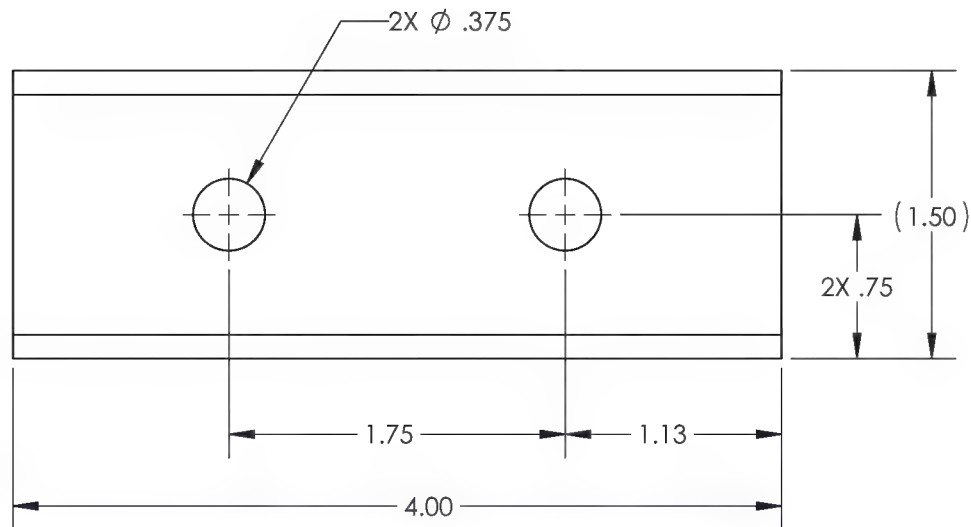
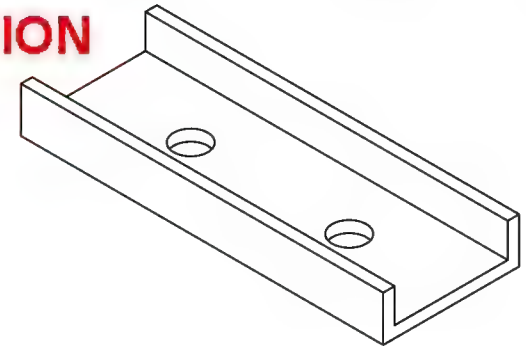
MOUNT PLATE

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-33</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm .010$	HEAT TREAT
.XX $\pm .03$	FINISH SEE -5 WELDMENT
.X $\pm .1$	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 11/19/2012
SHEET 18 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-35 CH'D HOLE FROM 2X Ø.266 TO .375.	1/18/2013	RJC	SE
2	14-0167	-35 CH'D DIMS WAS 1.50 IS (1.50), WAS .13 IS (.13).	10/22/2014	DPD	JAG

**SEE ATTACHED DEVIATION**



(-35)

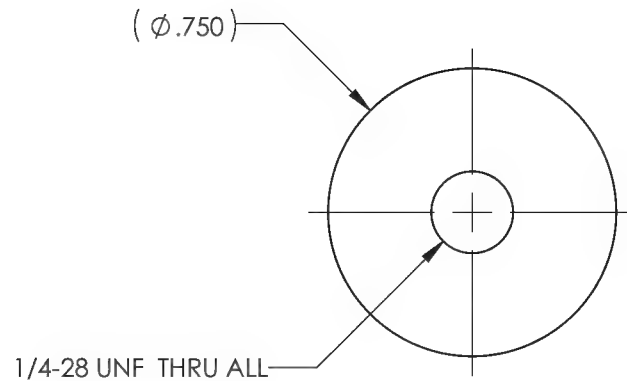
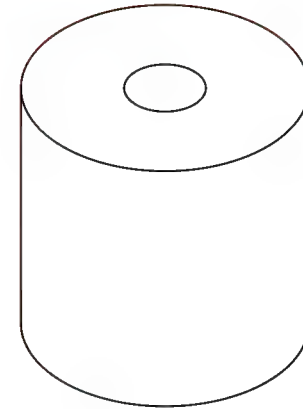
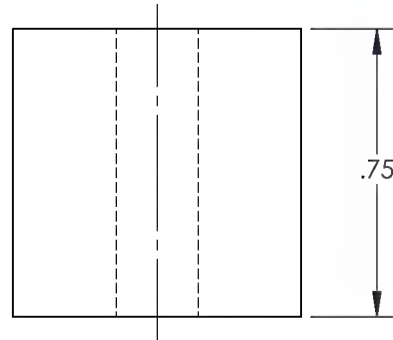
BLOCK PAD

<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-35</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .03 ANGLES ± 5°	FINISH SEE -S WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 11/19/2012
SHEET 19 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED

**SEE ATTACHED DEVIATION**



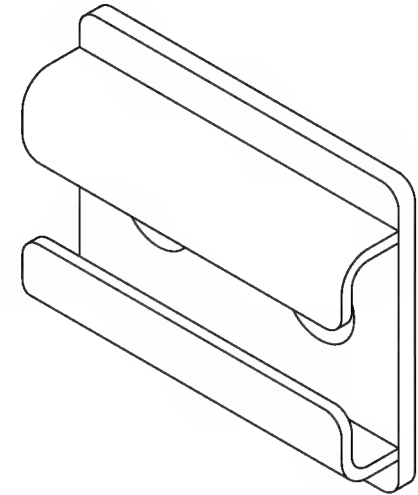
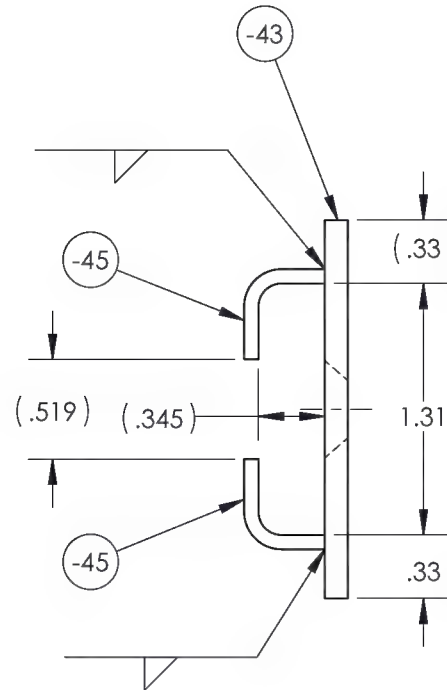
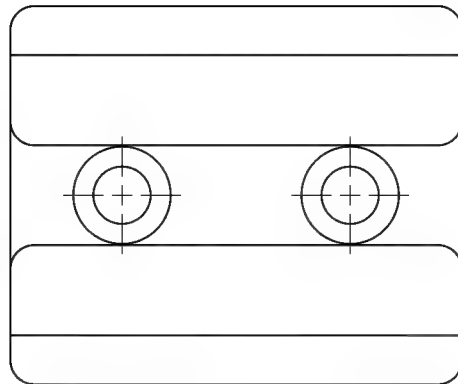
(-37)

RISER

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-37</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH SEE -5 WELDMENT
.X ± .1	ANGLES ± 5°
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL AW139
SCALE 2:1	DATE 11/19/2012
SHEET 20 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-41 ADDED MISSING .519 DIM., CH'D FINISH FROM POWDER COAT YELLOW.	1/18/2013	RJC	SE
2	14-0167	-41 CH'D DIM WAS .519 IS (.519).	10/22/2014	DPD	JAG



**SEE ATTACHED DEVIATION**

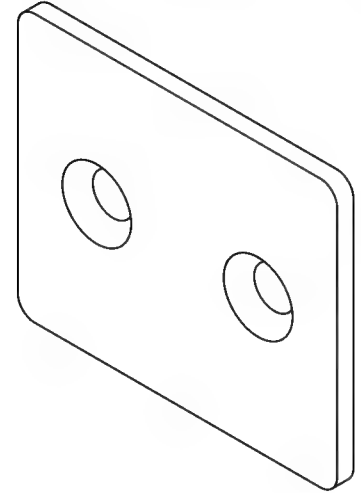
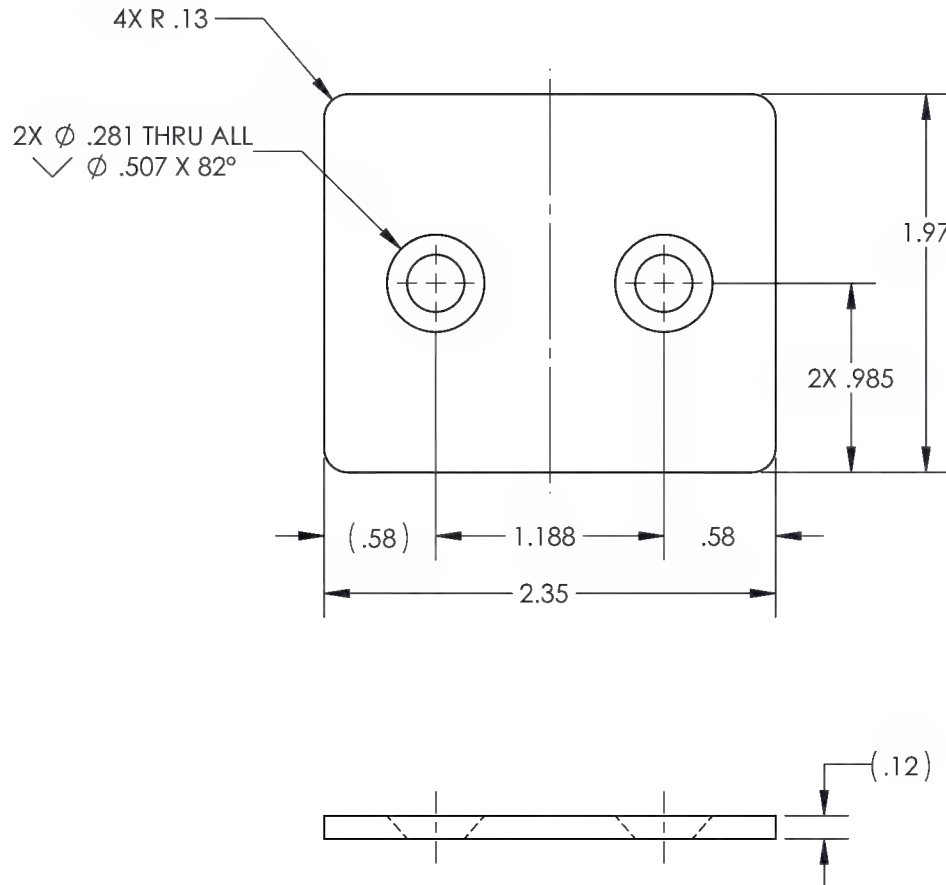
(-41)

GUIDE WELDMENT

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-41</b>	REV <b>2</b>
MAT'L <b>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1</b>	DRAWN BY: <b>CLOUGH</b> APPROVED <b>D Weil</b> HEAT TREAT FINISH <b>YELLOW ZINC</b> SPEC <b>.0002-.0004 THICK</b>
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>USED ON MODEL AW139</b>
SCALE <b>1:1</b>	DATE <b>11/19/2012</b> SHEET <b>21 OF 43</b>

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-43 CH'D $\nabla$ FROM $\phi .466$ TO $\phi .507$ .	1/18/2013	RJC	SE
2	14-0167	-43 CH'D DIM WAS .12 IS (.12).	10/22/2014	DPD	JAG



**SEE ATTACHED DEVIATION**

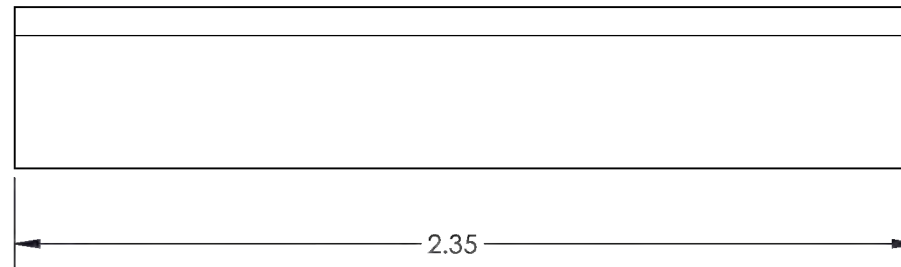
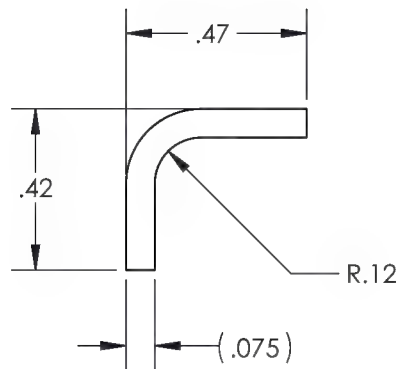
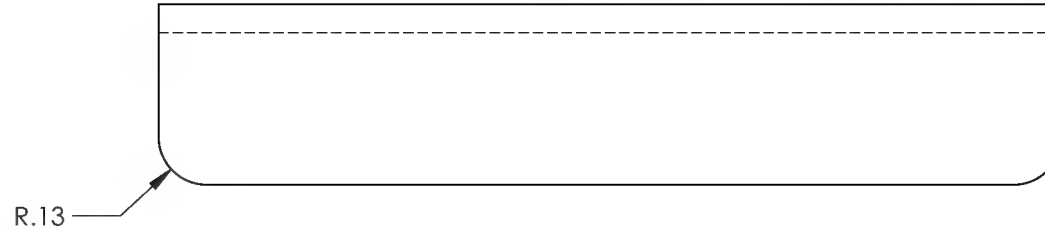
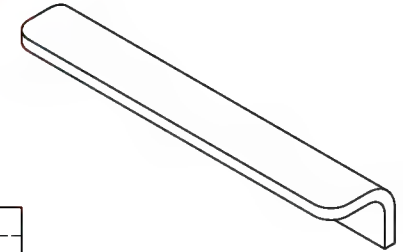
(-43)  
GUIDE PLATE

<b>DART</b> AEROSPACE	
TITLE TOW BAR, (FLIR)	
DWG NO. RBW0905G10331-3G-03-43	REV 2
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm .010$	HEAT TREAT
.XX $\pm .03$	FINISH SEE -41 WELDMENT
.X $\pm .1$	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 11/19/2012
SHEET 22 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-45 ADDED TOLERANCE $\pm .030$ TO .42 & .47 DIMENSIONS.	1/18/2013	RJC	SE

**SEE ATTACHED DEVIATION**



(-45)

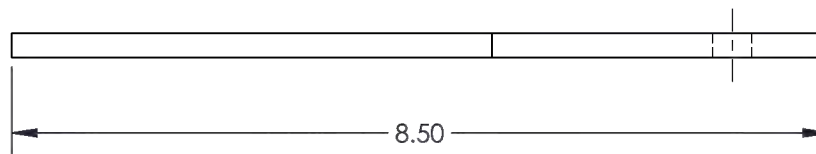
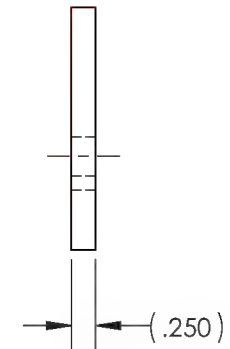
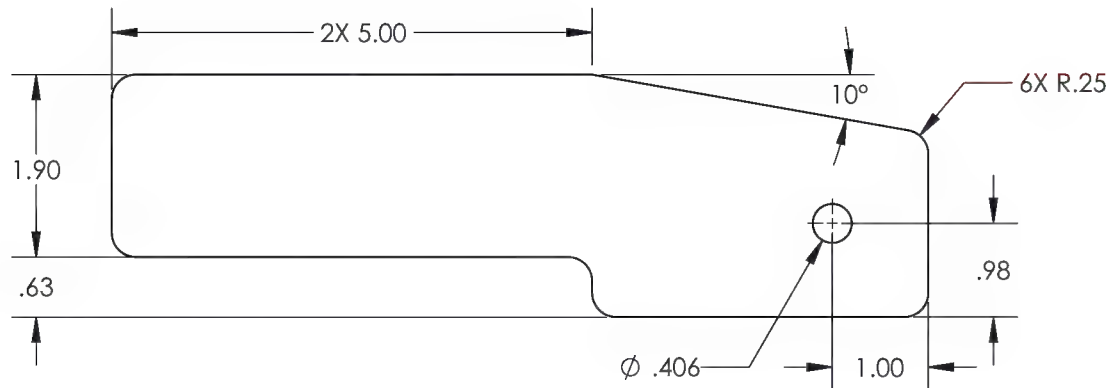
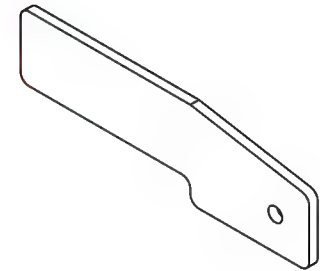
GUIDE

<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-45</b>	REV <b>2</b>
MAT'L C.R. STEEL	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm .010$	HEAT TREAT
.XX $\pm .03$	FINISH SEE -41 WELDMENT
.X $\pm .1$	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 2:1	DATE 11/19/2012
SHEET 23 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-48 NEW DESIGN WHEEL BRACKET REPLACED -47, -49, -51.	1/24/2013	RJC	SE

**SEE ATTACHED DEVIATION**



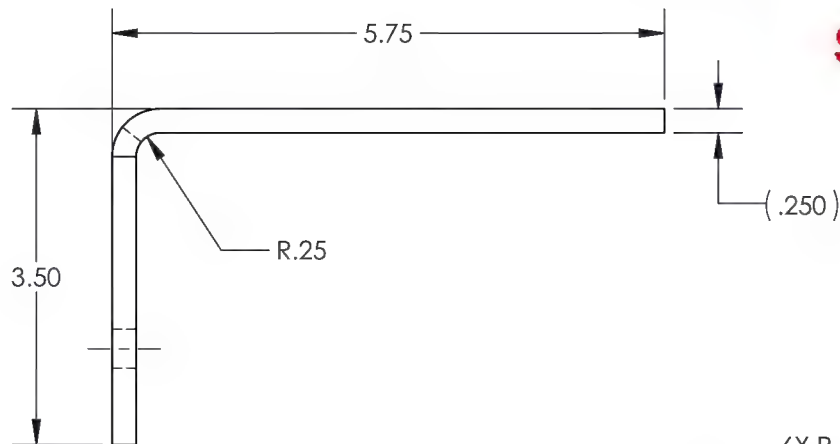
(-48)

WHEEL BRACKET

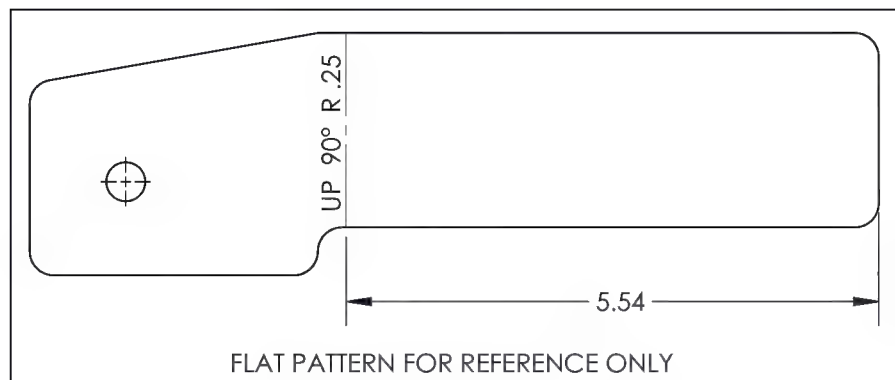
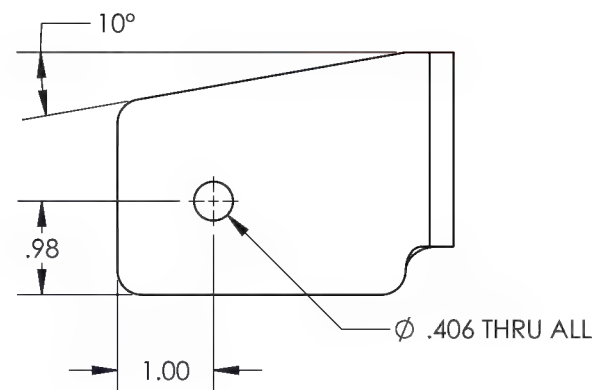
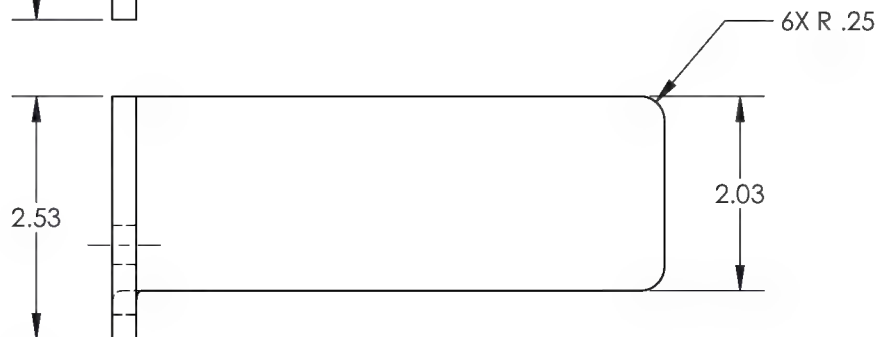
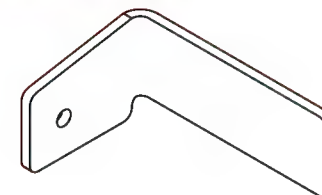
<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-48</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .03 ANGLES ± 5°	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 1/22/2013
SHEET 24 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-54 NEW DESIGN WHEEL BRACKET REPLACED -53, -55, -57.	1/24/2013	RJC	SE
2	14-0167	-54 CH'D MAT'L WAS 6061 SQ TUBE IS 6061, ADDED MISSING DIM R.25, CH'D DIM WAS 5X R.25 IS 6X	9/30/2014	DPD	GE



**SEE ATTACHED DEVIATION**



FLAT PATTERN FOR REFERENCE ONLY

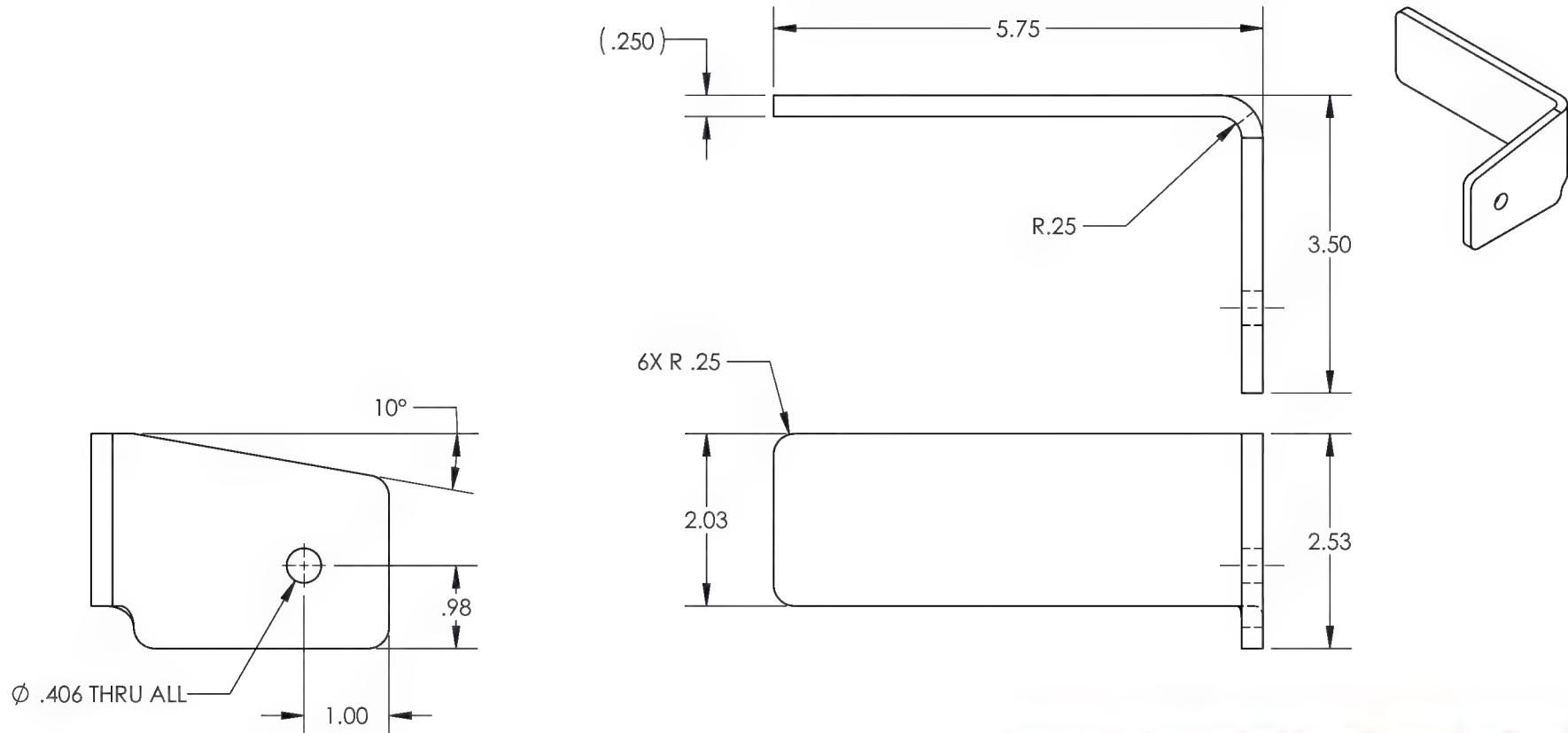
(-54)

R FRT. INSIDE WHEEL BRACKET

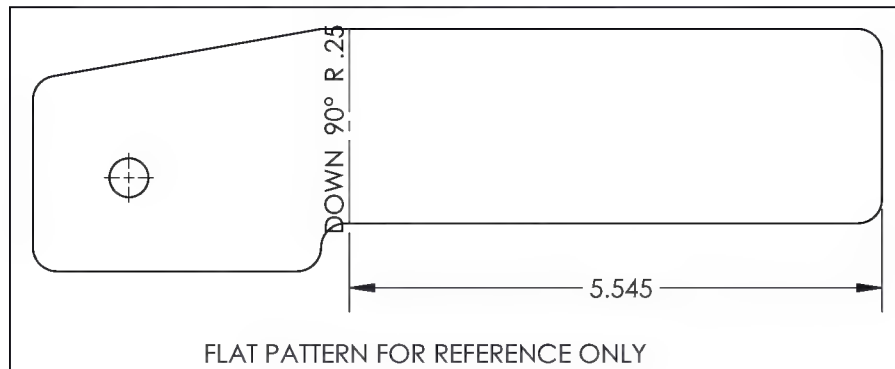
<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-54</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010	HEAT TREAT
.XX ± .03	FINISH SEE -5 WELDMENT
.X ± .1	ANGLES ± 5°
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL AW139
SCALE 1:2	DATE 1/22/2013
SHEET 25 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-56 NEW DESIGN WHEEL BRACKET REPLACED -53, -55, -57.	1/24/2013	RJC	SE
2	14-0167	-56 CH'D MAT'L WAS 6061 SQ TUBE IS 6061, ADDED MISSING DIM R.25, CH'D DIM WAS 5X R.25 IS 6X	9/30/2014		



**SEE ATTACHED DEVIATION**



FLAT PATTERN FOR REFERENCE ONLY

(-56)

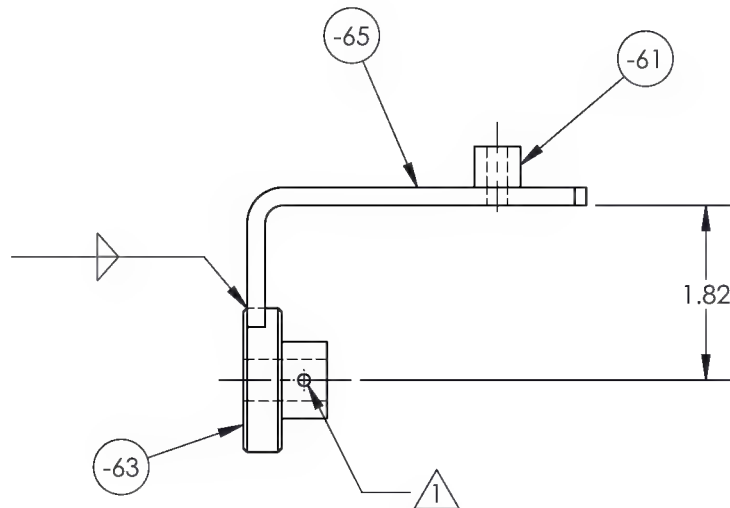
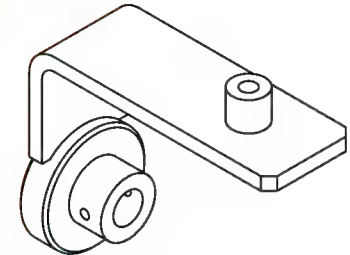
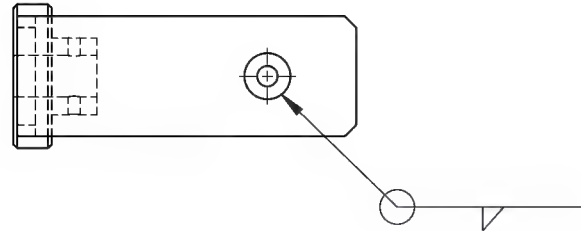
L FRT. INSIDE WHEEL BRACKET

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-56</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010	HEAT TREAT
.XX ± .03	FINISH SEE -5 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 1/22/2013
SHEET 26 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-59 CH'D FINISH FROM POWDER COAT YELLOW TO YELLOW ZINC.	1/18/2013	RJC	SE


**SEE ATTACHED DEVIATION**



(-59)

PIN SLIDE WELDMENT

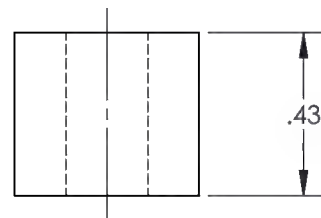
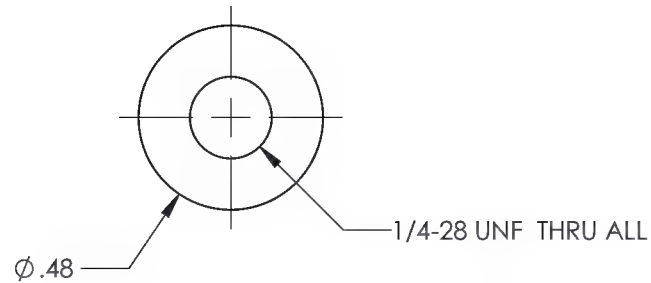
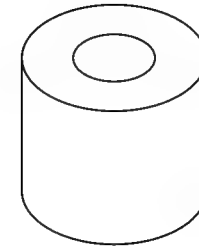
NOTE:

 ORIENTATION IS NOT CRITICAL, ALIGN AS SHOWN BY EYE.

<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-59</b>	REV <b>2</b>
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: <b>CLOUGH</b> APPROVED <i>D Weil</i> HEAT TREAT FINISH <b>YELLOW ZINC</b> SPEC <b>.0002-.0004 THICK</b> <b>USED ON MODEL</b> <b>AW139</b>
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE <b>1:2</b>	DATE <b>11/19/2012</b> SHEET <b>27 OF 43</b>

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



**SEE ATTACHED DEVIATION**

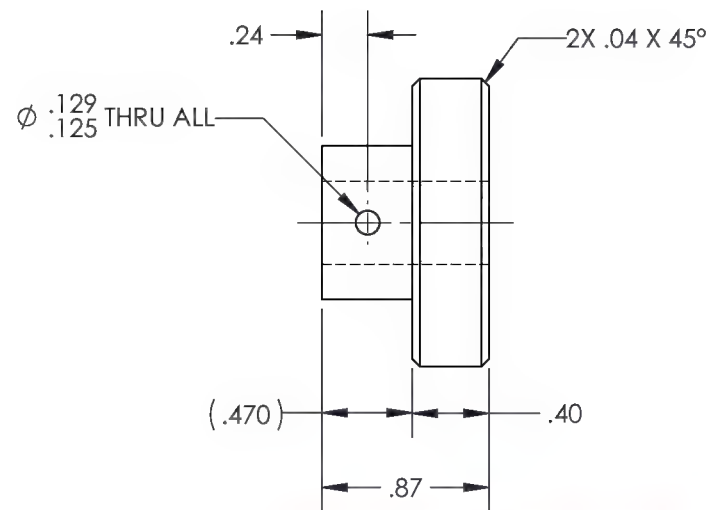
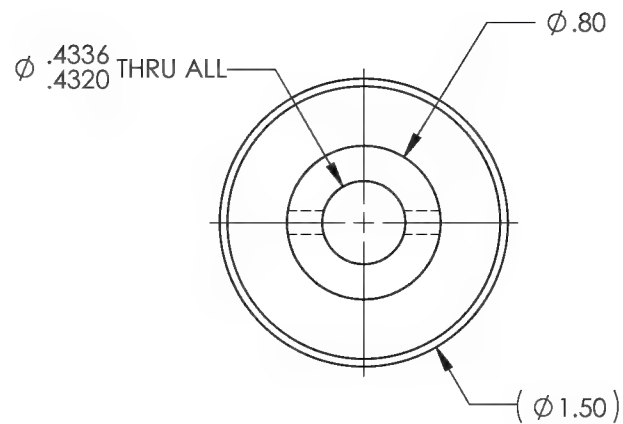
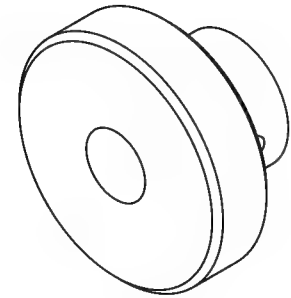
(-61)

BUSHING

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-61</b>	REV <b>2</b>
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -59 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 2:1	DATE 11/19/2012
SHEET 28 OF 43	

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REVISIONS			
REV	ECR	DESCRIPTION	DATE
			INITIAL
			APPROVED



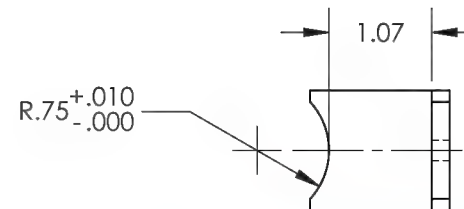
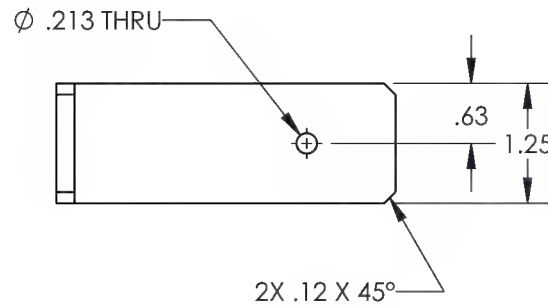
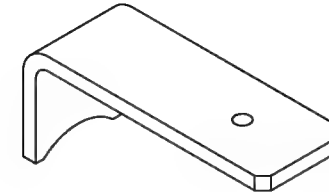
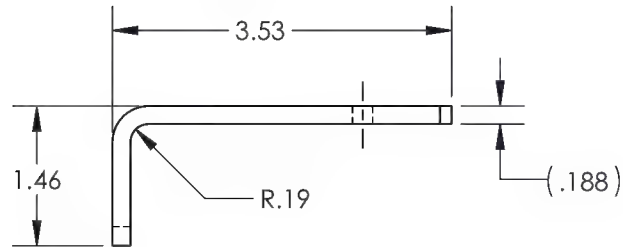
**SEE ATTACHED DEVIATION**

(-63)  
PIN ATTACHMENT

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-63</b>	REV <b>2</b>
MAT'L 1018	DRAWN BY: <b>GILBERT</b>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <b>D Weil</b>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH SEE -59 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>AW139</b>
SCALE 1:1	DATE 11/20/2012
SHEET 29 OF 43	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



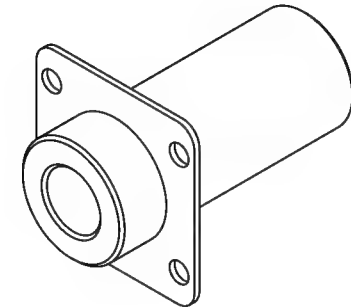
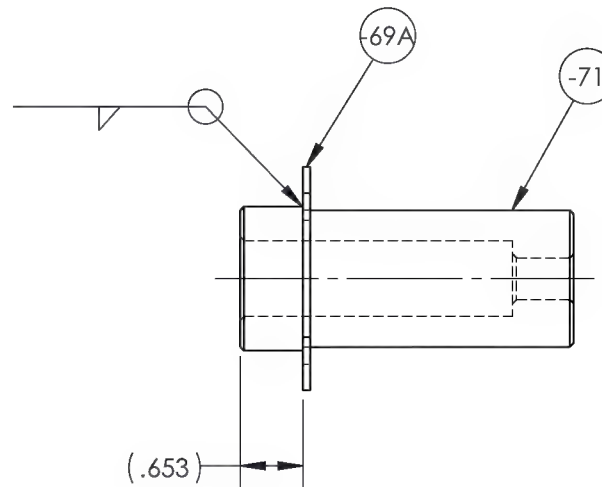
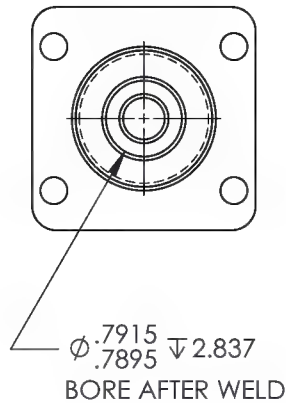
**SEE ATTACHED DEVIATION**

(-65)  
SLIDE BAR

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-65</b>	REV <b>2</b>
MAT'L 1018	DRAWN BY: <b>GILBERT</b>
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .03 ANGLES ± 5°	FINISH SEE -59 WELDMENT
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	<b>AW139</b>
SCALE 1:2	DATE 11/20/2012
SHEET 30 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-67 ADDED Ø.7915 - .7895 BORE AFTER WELD, CH'D FINISH FROM POWDER COAT YELLOW TO YELLOW ZINC.	1/18/2013	RJC	SE
2	14-0167	-67 CH'D DIM WAS LIMITS Ø.7895-.7915 IS LIMITS Ø.7895-.7915 $\nabla$ 2.837.	10/22/2014	DPD	JAG



**SEE ATTACHED DEVIATION**

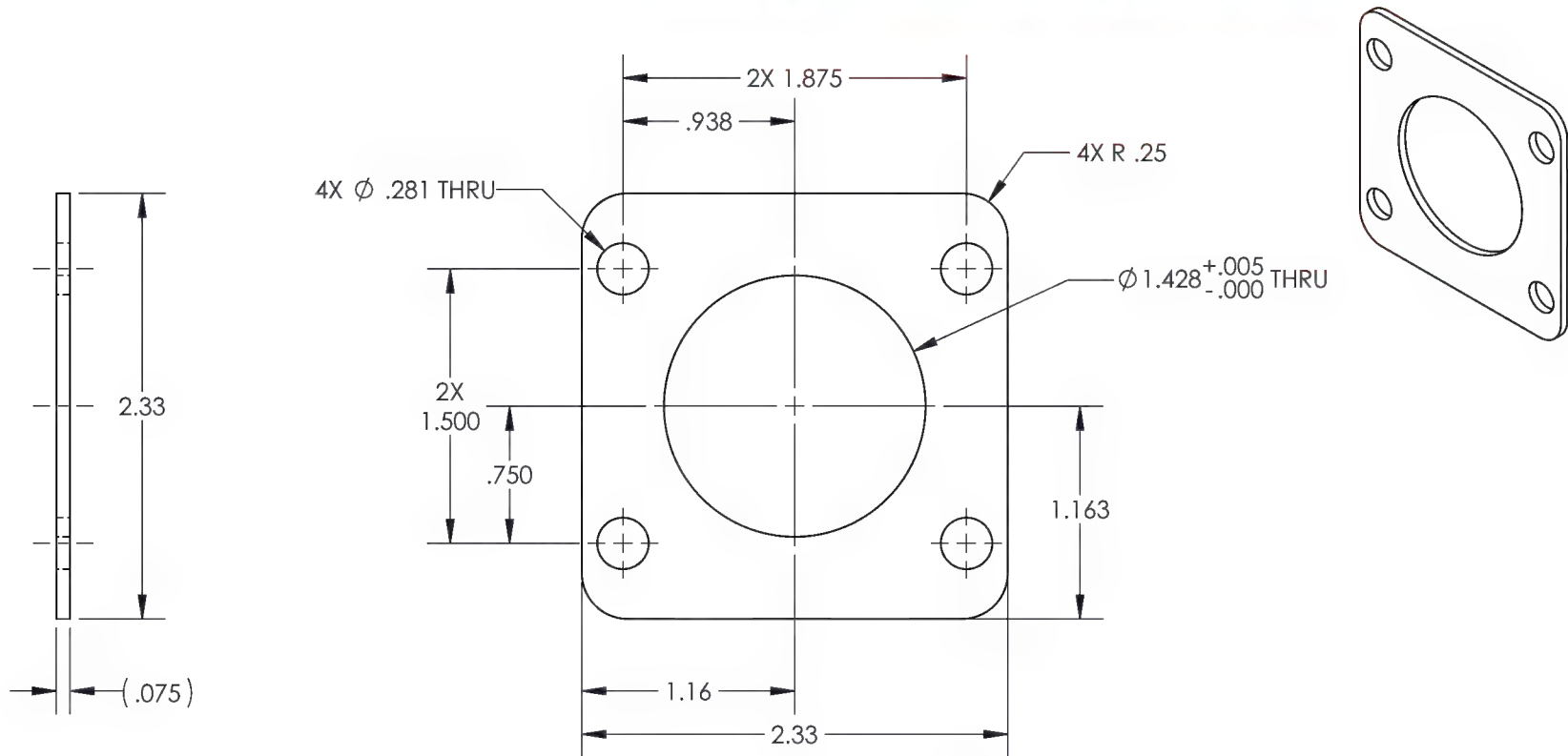
-67  
PIN HOUSING WELDMENT

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-67</b>	REV <b>2</b>
MAT'L UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1	DRAWN BY: <b>GILBERT</b> APPROVED <i>D Weil</i> HEAT TREAT FINISH <b>YELLOW ZINC</b> SPEC <b>.0002-.0004 THICK</b>
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL <b>AW139</b>
SCALE <b>1:2</b>	DATE <b>11/20/2012</b> SHEET <b>31 OF 43</b>

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-69 CH'D TO -69A & -69B, ADDED TABLE FOR FINISH CALL OUT.	1/21/2013	RJC	SE
2	14-0167	-69A & -69B DELETED DIMS .225, .413. ADDED DIMS .938, .750.	10/22/2014	DPD	JAG

**SEE ATTACHED DEVIATION**




  
 HOUSING PLATE

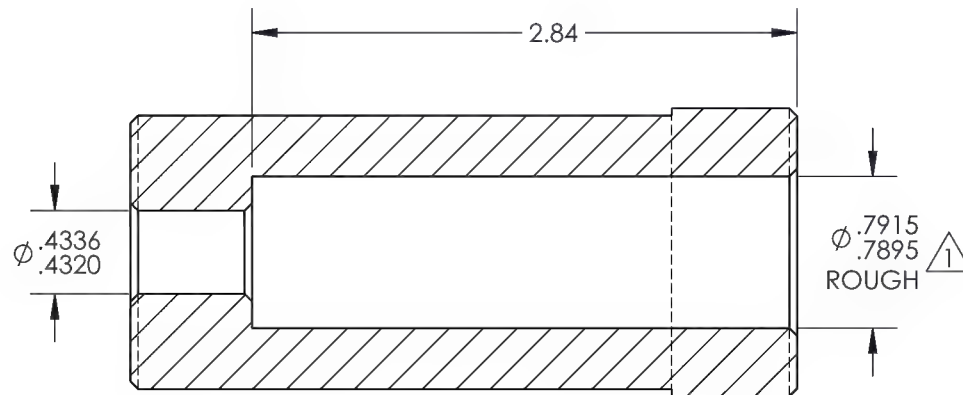
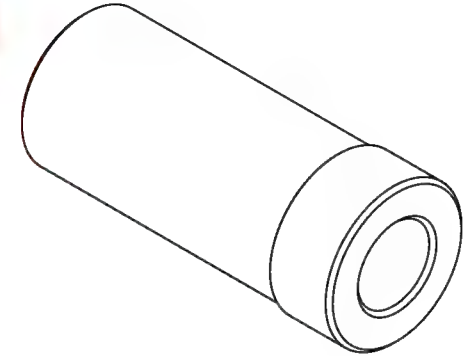
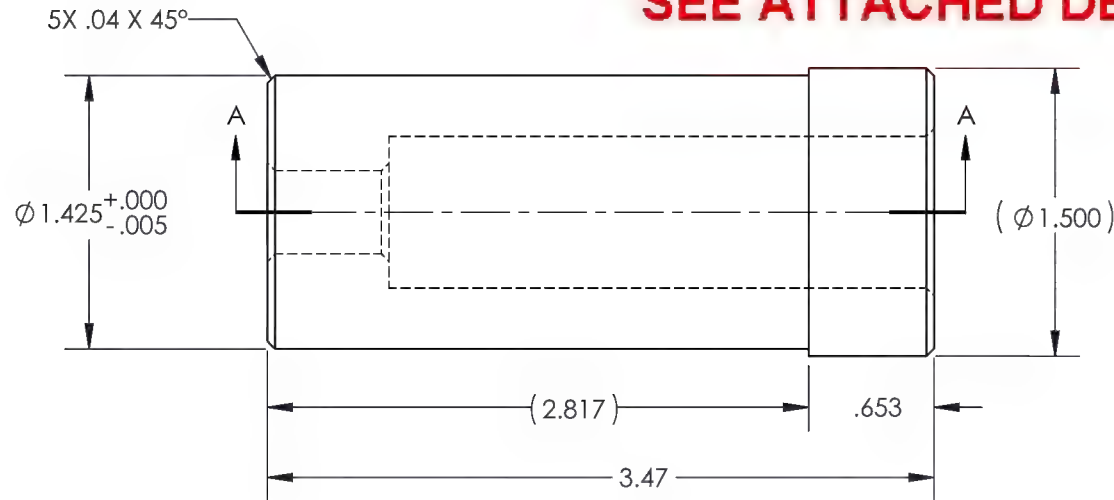
-69A	2	NO FINISH, SEE -67 WELDMENT
-69B	2	YELLOW ZINC .0002 - .0004 FINISH

	
TITLE <b>TOW BAR (FLIR)</b>	
DWG NO. RBW0905G10331-3G-03-69A & -69B	REV <b>2</b>
MAT'L 1018	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .03 ANGLES ± 5°	FINISH SEE TABLE
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 11/19/2012
SHEET 32 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-71 CH'D $\varnothing 1.422 +.000-.005$ TO $\varnothing 1.425 +.000-.002$ , ADDED ROUGH & 1 NOTE TO $\varnothing .7915-.7895$ .	1/18/2013	RJC	SE
2	14-0167	-71 CH'D DIM WAS $\varnothing 1.425 +.000-.002$ IS $\varnothing 1.425 +.000-.005$ .	10/22/2014	DPD	JAG

**SEE ATTACHED DEVIATION**



SECTION A-A

(-71)  
PIN HOUSING

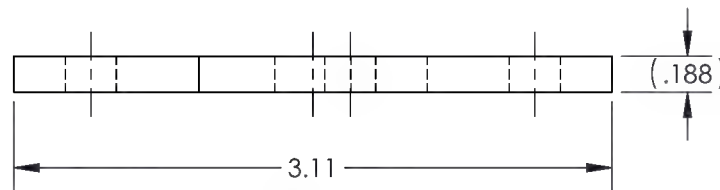
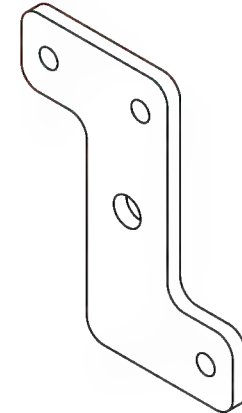
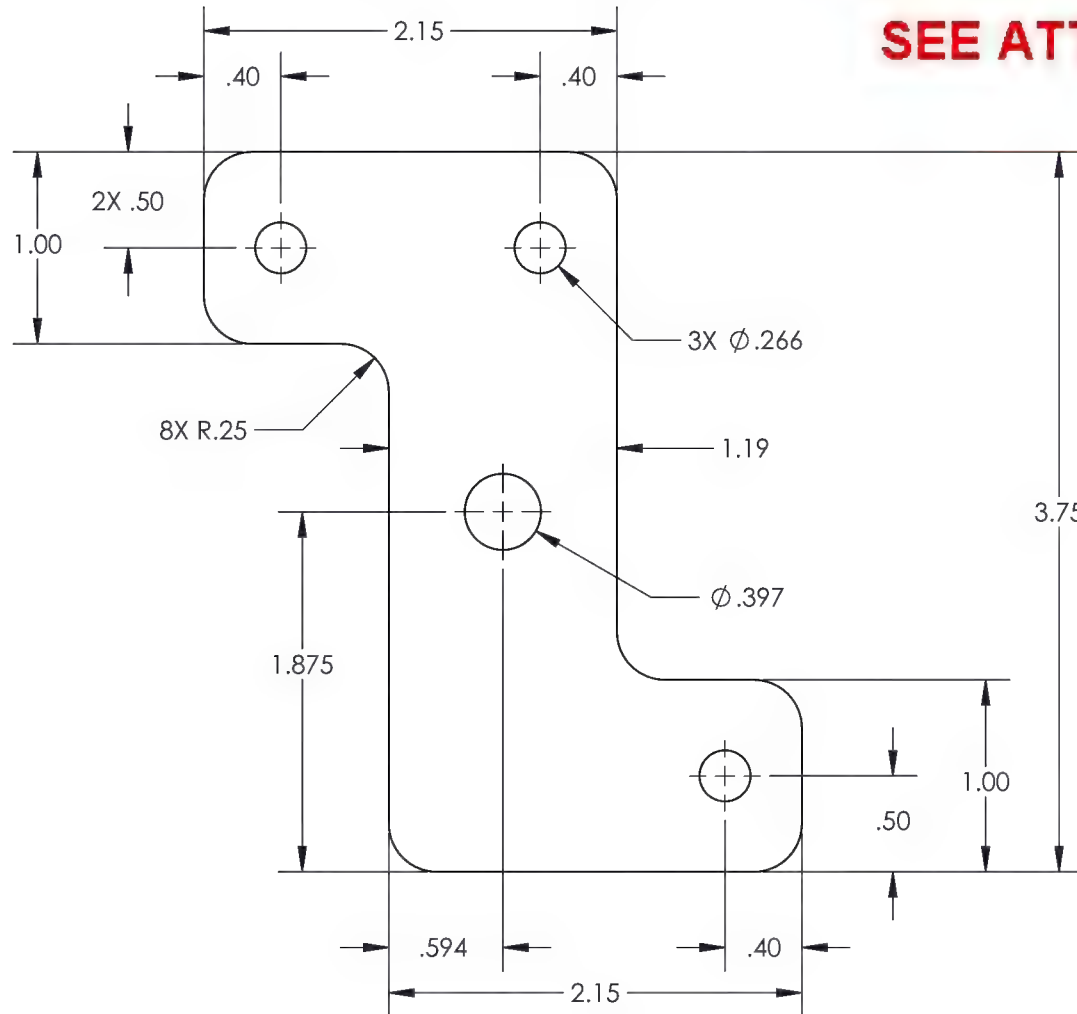
NOTE:

1 AFTER WELDING SEE -67 FINISH BORE TO ACHIEVE DIMENSION.

<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-71</b>	REV <b>2</b>
MAT'L 1018	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm .005$	HEAT TREAT
.XX $\pm .01$	FINISH SEE -67 WELDMENT
.X $\pm .1$	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 11/20/2012
SHEET 33 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	14-0167	-73 DELETED DIM 1.350. ADDED DIM .40.	10/22/2014	DPD	JAG



(-73)

BELL CRANK

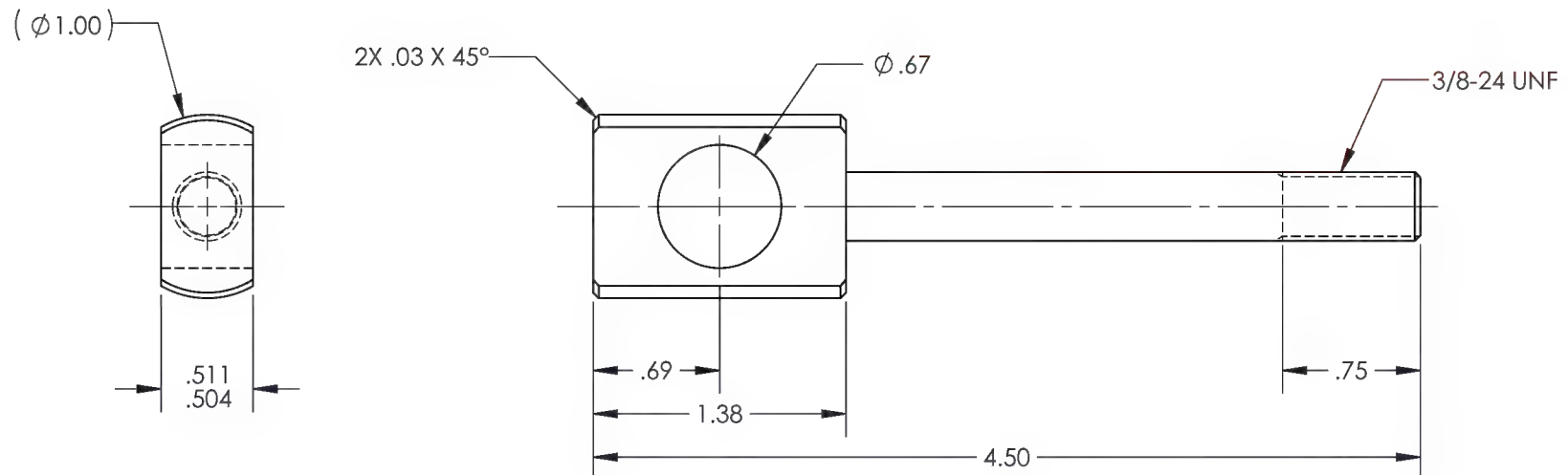
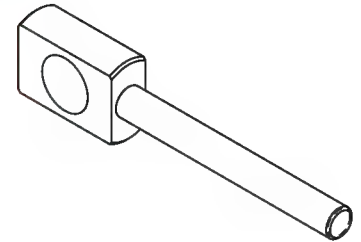
NOTE:  
1. MASK HOLES PRIOR TO POWDER COATING.

<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-73</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010	HEAT TREAT
.XX ± .03	FINISH POWDER COAT YELLOW
.X ± .1	SPEC FED #13538
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 11/19/2012
SHEET 34 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-75 CH'D OD FROM Ø.750 TO (Ø1.00), CH'D FLAT DIM. FROM .636 - .629 TO .511 - .504, CH'D HOLE FROM Ø.465 TO Ø.672.	1/18/2013	RJC	SE

**SEE ATTACHED DEVIATION**



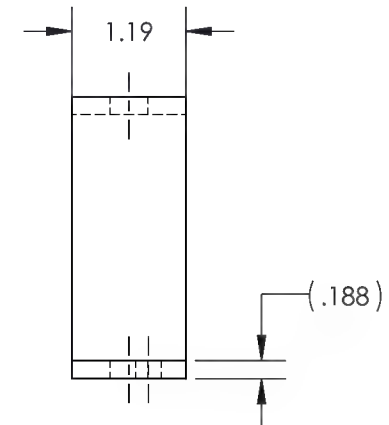
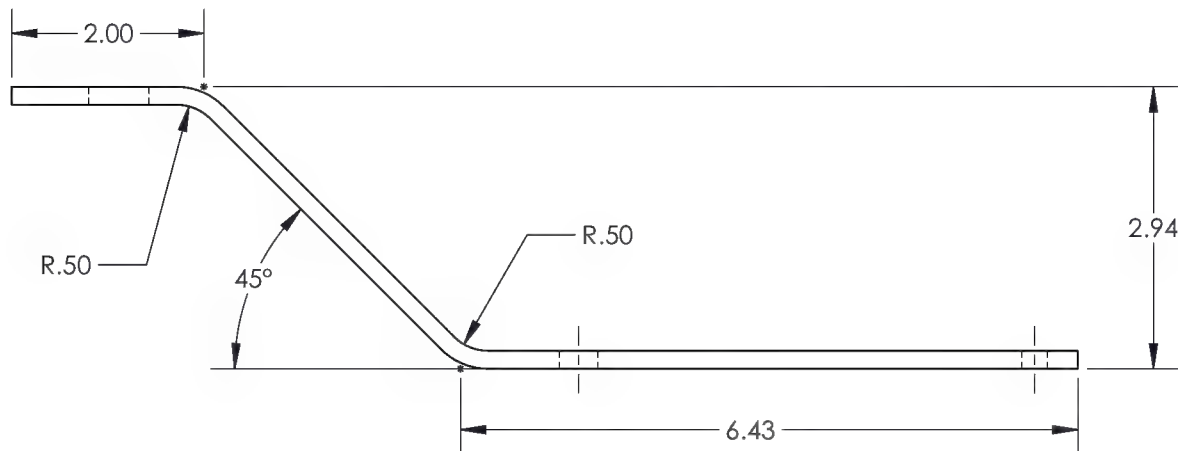
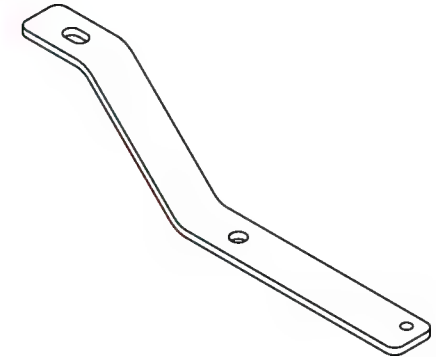
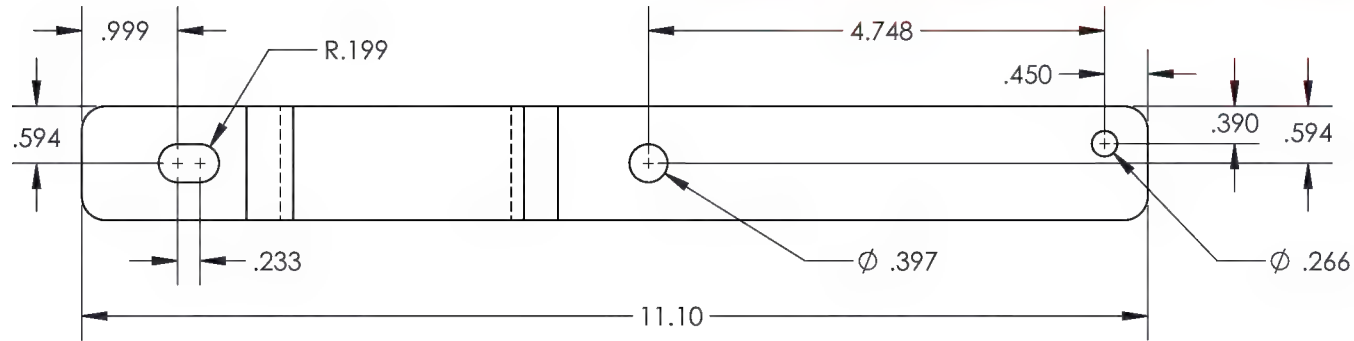
(-75)  
CABLE BOLT

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-75</b>	REV <b>2</b>
MAT'L 12L14	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH YELLOW ZINC
.X ± .1	SPEC .0002 - .0004
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 11/19/2012
SHEET 35 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-77 ADDED MISSING Ø.266 HOLE DIM., ADDED ±.030 TOLERANCE TO 1.188 DIM.	1/18/2013	RJC	SE

**SEE ATTACHED DEVIATION**



(-77)

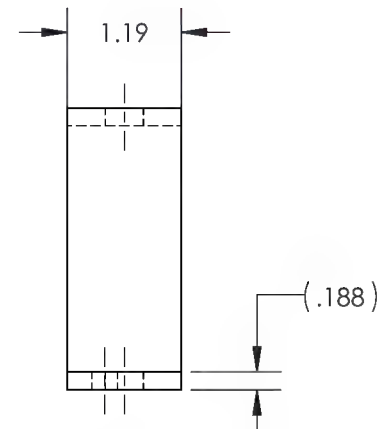
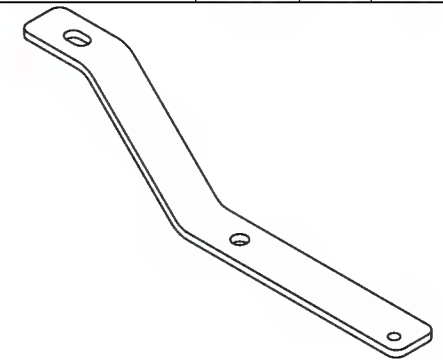
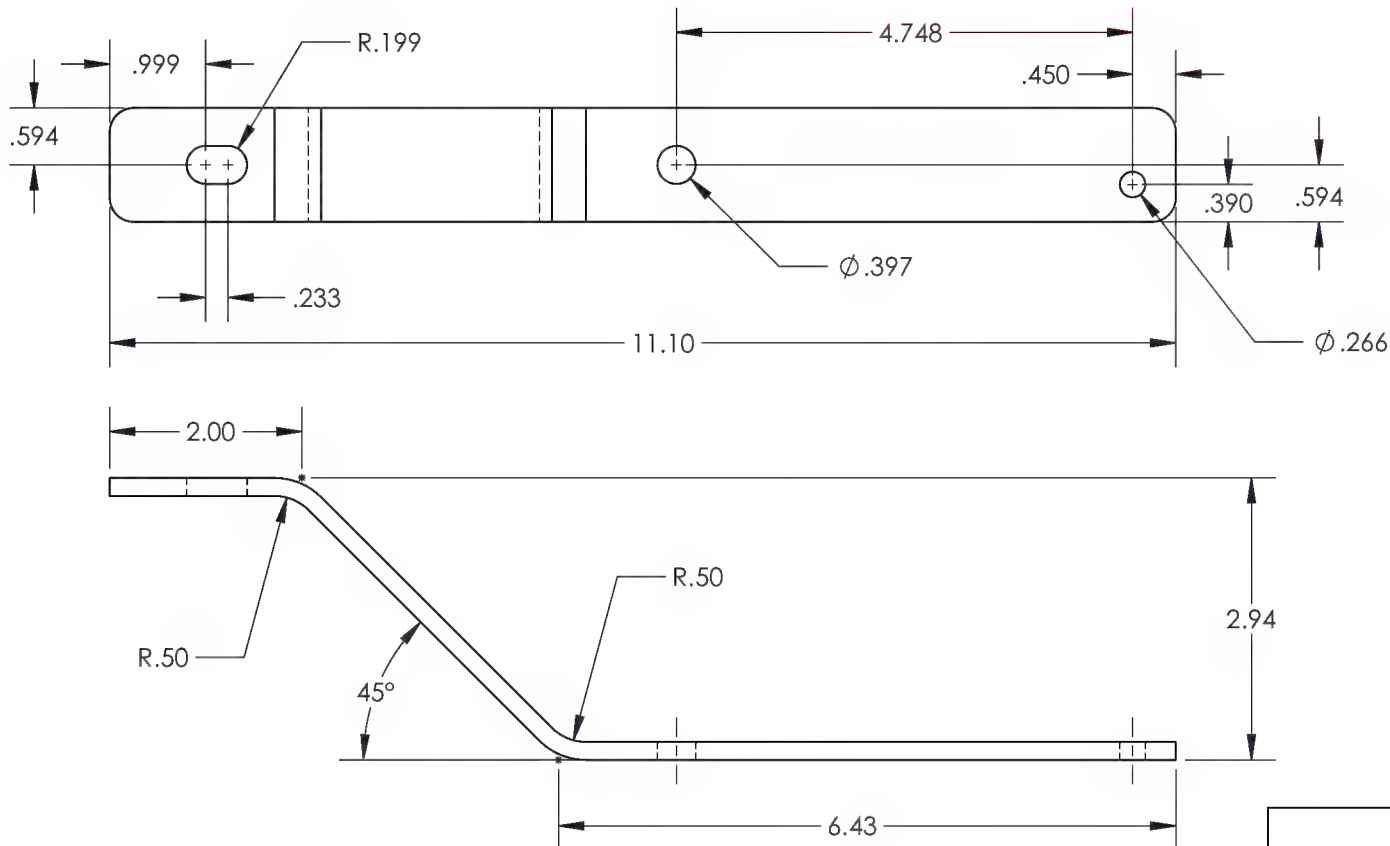
TRANSFER BAR RIGHT

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-77</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .010 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .03 ANGLES ± 5°	FINISH POWDER COAT YELLOW
.X ± .1	SPEC FED #13538
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 11/28/2012
SHEET 36 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-79 ADDED MISSING $\varnothing$ .266 HOLE DIM., ADDED $\pm$ .030 TOLERANCE TO 1.188 DIM.	1/18/2013	RJC	SE
2	14-0167	-79 CH'D DIM WAS .188 IS (.188).	10/22/2014	DPD	JAG

**SEE ATTACHED DEVIATION**



(-79)

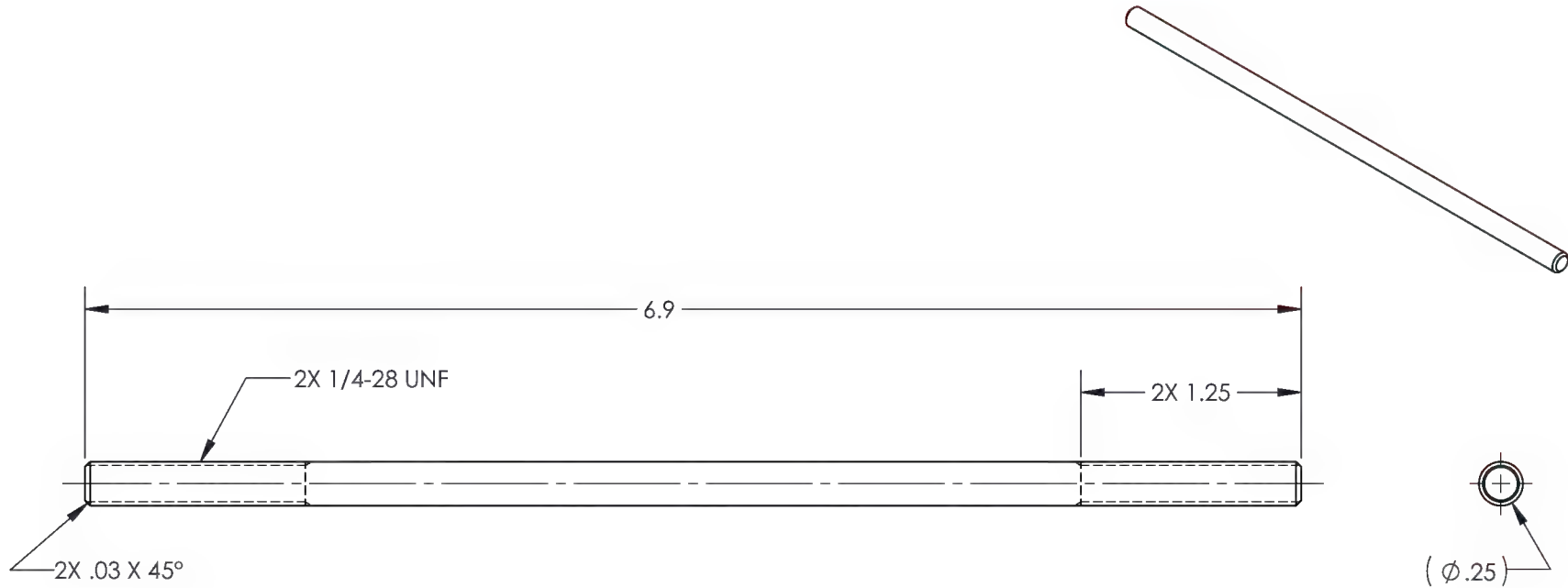
TRANSFER BAR LEFT

<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR (FLIR)</b>	
DWG NO. RBW0905G10331-3G-03-79	REV <b>2</b>
MAT'L 6061	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm$ .010 FRACTIONS $\pm$ 1/8	HEAT TREAT
.XX $\pm$ .03 ANGLES $\pm$ 5°	FINISH POWDER COAT YELLOW
.X $\pm$ .1	SPEC FED #13538
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 11/28/2012
SHEET 37 OF 43	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED

**SEE ATTACHED DEVIATION**



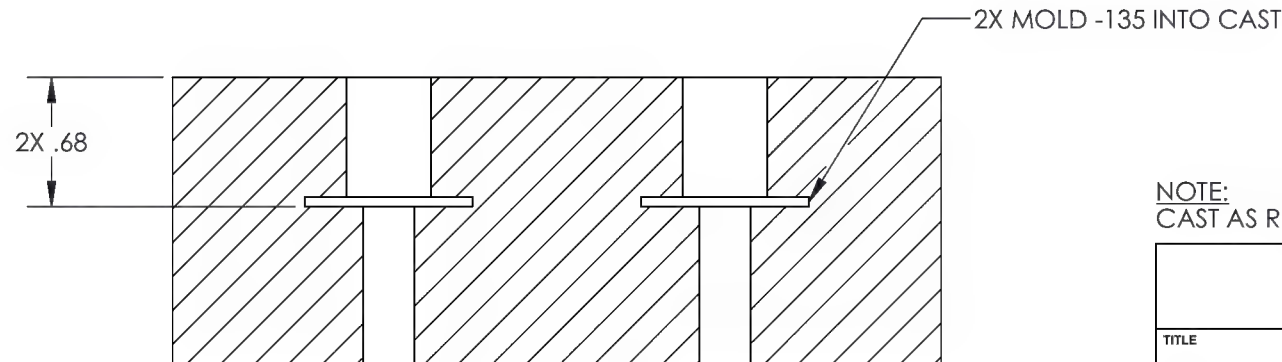
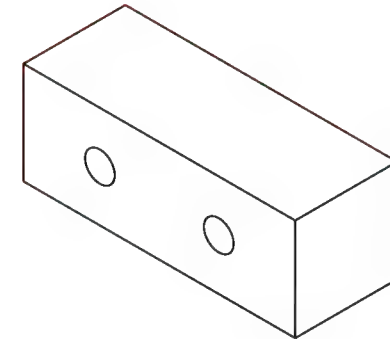
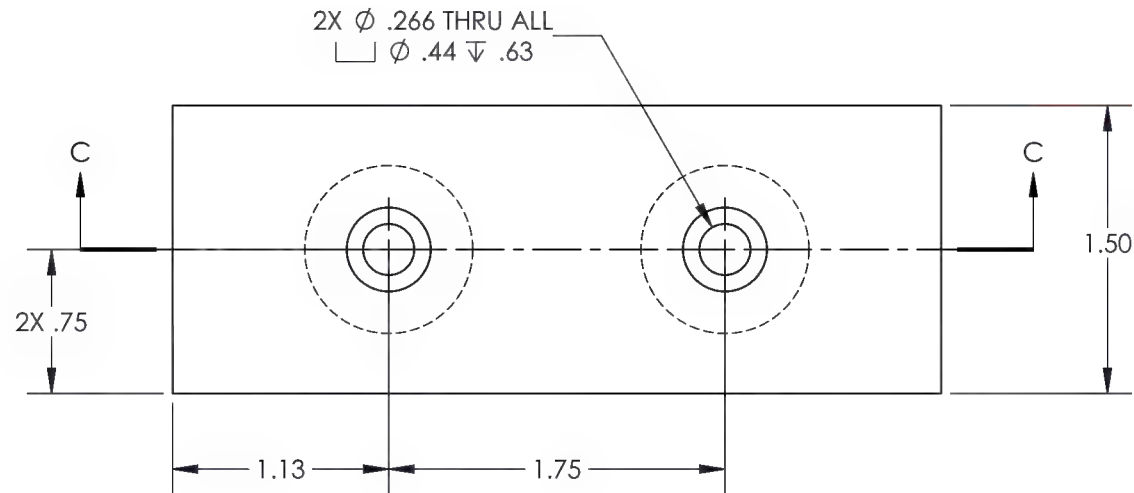
(-81)  
SLIDE LINKAGE ROD

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-81</b>	REV <b>2</b>
MAT'L 12L14	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT TREAT
.XX ± .01	FINISH YELLOW ZINC
.X ± .1	SPEC .0002 - .0004
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 11/19/2012
SHEET 38 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-83 ADDED NOTE TO MOLD -135 WASHER INTO CAST, CH'D MATERIAL FROM POLYURETHANE 45-50A.	1/18/2013	RJC	SE

**SEE ATTACHED DEVIATION**



SECTION C-C

(-83)

PAD

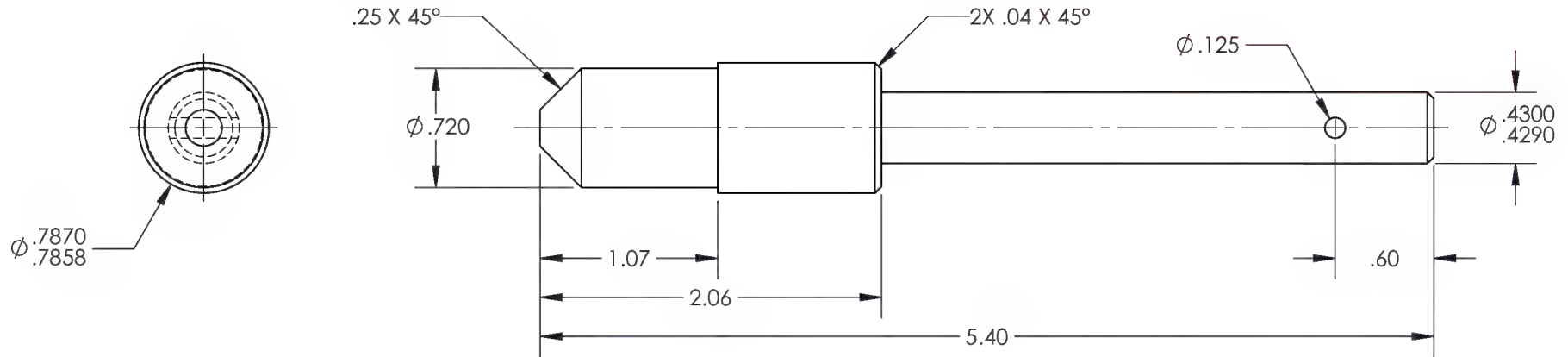
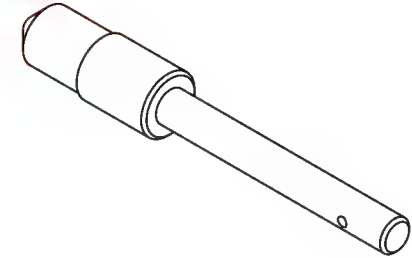
NOTE:  
CAST AS REQUIRED.

<b>DART</b> AEROSPACE	
TITLE TOW BAR, (FLIR)	
DWG NO. RBW0905G10331-3G-03-83	REV 2
MAT'L URETHANE 60A	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX $\pm .005$	HEAT
.XX $\pm .01$	TREAT
.X $\pm .1$	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	AW139
SCALE 1:1	DATE 11/19/2012
	SHEET 39 OF 43

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REVISIONS			DATE	INITIAL	APPROVED
REV	ECR	DESCRIPTION			

**SEE ATTACHED DEVIATION**



(-85)

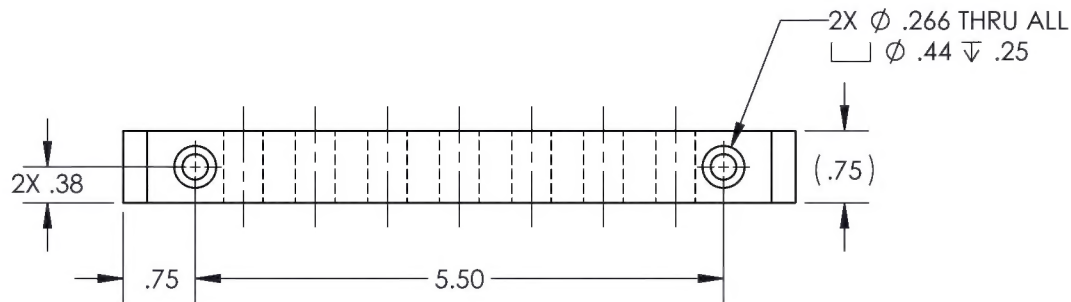
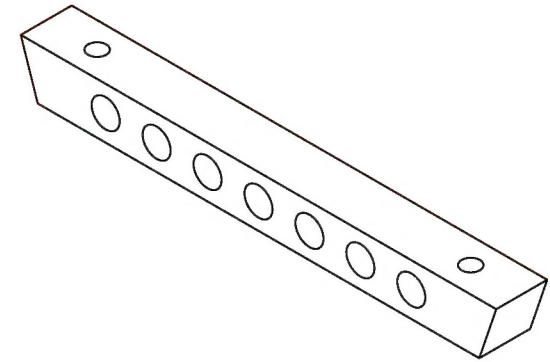
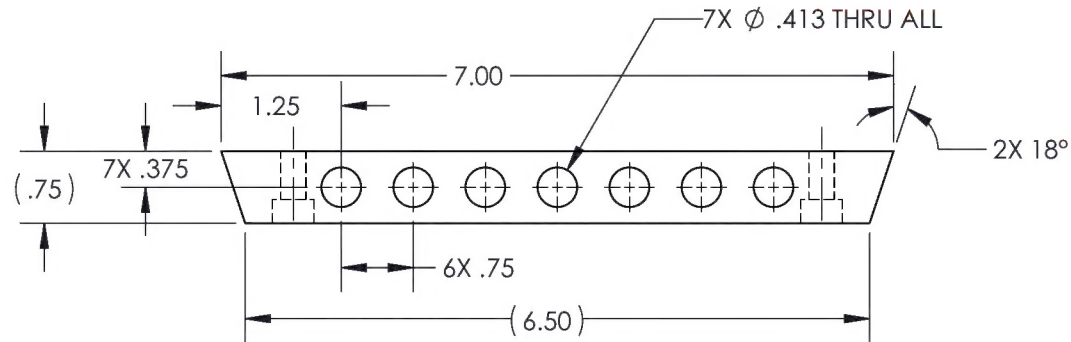
PIN

<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-85</b>	REV <b>2</b>
MAT'L 4140	DRAWN BY: GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>P. Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT RC 40-45
.XX ± .01 ANGLES ± 5°	FINISH YELLOW ZINC
.X ± .1	SPEC .0002 - .0004
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 11/28/2012
SHEET 40 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	14-0167	-87 CH'D DIM WAS 6.50 IS (6.50).	10/22/2014	DPD	JAG

**SEE ATTACHED DEVIATION**



(-87)

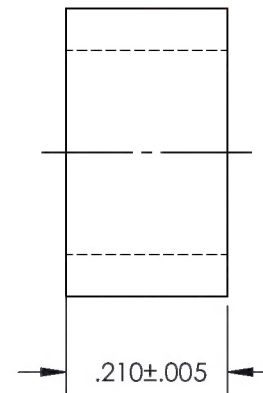
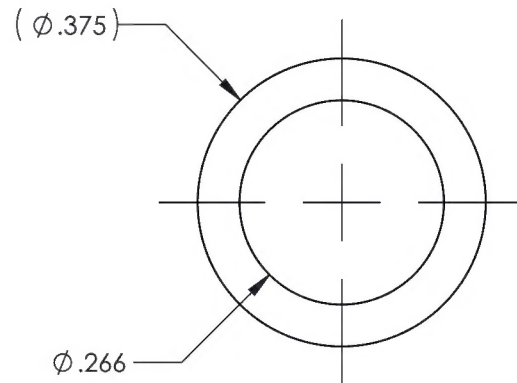
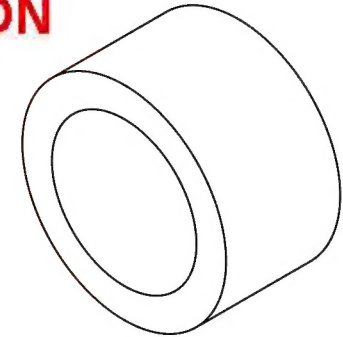
TONGUE SHEER BOLT HOLDER

<b>DART</b> AEROSPACE	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-87</b>	REV <b>2</b>
MAT'L 6061	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH CLEAR ANODIZE
.X ± .1	SPEC MIL-A-8625F, TYPE II, CLASS I
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:2	DATE 11/19/2012
SHEET 41 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-129 ADDED DWG, USED FOR -77 & -79 TRANSFER BARS.	1/24/2013	RJC	SE
2	14-0167	-129 CH'D DIM WAS Ø.375 IS (Ø.375).	10/22/2014	DPD	JAG

**SEE ATTACHED DEVIATION**



-129

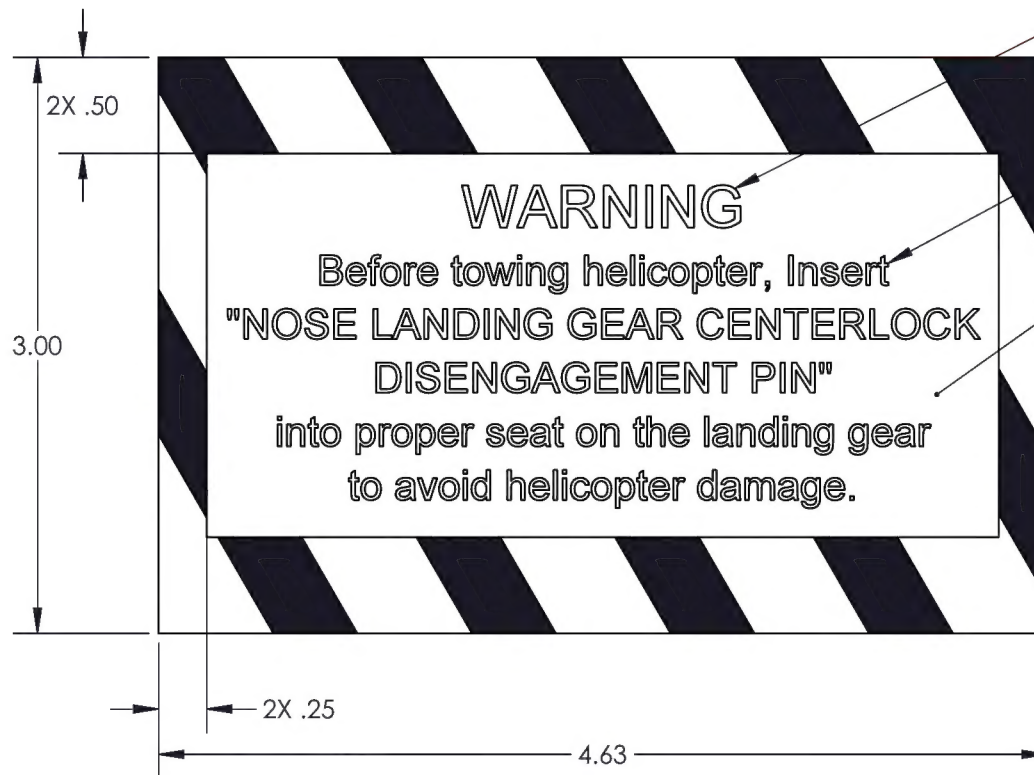
SLEEVE

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-129</b>	REV <b>2</b>
MAT'L BRONZE	DRAWN BY: CLOUGH
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005 FRACTIONS ± 1/8	HEAT TREAT
.XX ± .01 ANGLES ± 5°	FINISH
.X ± .1	SPEC
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 4:1	DATE 1/23/2013
SHEET 42 OF 43	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	14-0167	-151 ADDED DRAWING.	10/1/2014	DPD	GE

**SEE ATTACHED DEVIATION**



ARIAL BOLD 7/32

ARIAL 5/32

BLACK LETTERS, STRIPES, & LINES  
 ON YELLOW BACKGROUND



(-151)

WARNING STICKER WITH ADHESIVE BACK

<b>DART AEROSPACE</b>	
TITLE <b>TOW BAR, (FLIR)</b>	
DWG NO. <b>RBW0905G10331-3G-03-151</b>	REV <b>2</b>
MAT'L VINYL	DRAWN BY:
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	APPROVED <i>D Weil</i>
.XXX ± .005	HEAT
.XX ± .01	TREAT
.X ± .1	FINISH
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	SPEC
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
SCALE 1:1	DATE 9/30/2014
SHEET 43 OF 43	

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. <u>RBW0905G10331-3G-03</u> Rev. 2  NCR No. _____		<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>		<b>AGAINST DEPARTMENT/PROCESS</b>  <div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/>            Machining <input type="checkbox"/>            Thermoforming <input type="checkbox"/>            Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/>            Small Fab <input type="checkbox"/>            Finishing <input type="checkbox"/>            Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/>            Prod. Eng. Coord. <input type="checkbox"/>            Rec/Store/Packaging <input type="checkbox"/>            Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/>            Quality <input type="checkbox"/>            Other <input type="checkbox"/> </div> </div>					
Date : _____		Step #: _____		QTY Effective : _____		<b>MRB (QSI042) Approval</b>  Jan 25, 2019			
<b>Description Work Order Deviation</b>				<b>Disposition</b>					
On assembly RBW0905G10331-3G-03 items: -23/-25 bend radius to be 1.00" (Was 0.19")  54/-56/ bend radius to be 0.375" (Was 0. 25")  Use material 6061-T4/T6.  PEC has revised Flat pattern with above bend radius and passed production test.				- This deviation is acceptable.  - The fit, form and function of the part will be as originally intended.				<b>Completed By</b>  <b>Lead hand / Supervisor Approval Verification</b>  <b>QC / QA Coordinator Approval</b>	
<b>Root Cause</b>		<b>FAULT CATEGORY</b>							
Environment <input type="checkbox"/> Design <input checked="" type="checkbox"/> Doc/Data <input type="checkbox"/> Equip/Tooling <input type="checkbox"/> Handling/Pre <input type="checkbox"/> Material <input type="checkbox"/> Internal Transport <input type="checkbox"/> Tribal Knowledge <input type="checkbox"/> LOA <input type="checkbox"/> Substation <input type="checkbox"/> Past Expiry Date <input type="checkbox"/> Misidentified <input type="checkbox"/>	No Re-verification <input type="checkbox"/> Operator <input type="checkbox"/> Offset/Setup <input type="checkbox"/> Supplier <input type="checkbox"/> Training <input type="checkbox"/> Use for Testing <input type="checkbox"/> Poor Information <input type="checkbox"/> Rushing <input type="checkbox"/> Product Improvement <input checked="" type="checkbox"/> Process Improvement <input type="checkbox"/> Manufacturing Process <input type="checkbox"/> Past Due <input type="checkbox"/>	Pressure/Forced <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Wave/Twist in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/>	Temperature/Cure <input type="checkbox"/> Set-up <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Drill Holes <input type="checkbox"/>	Power Loss/Surge <input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Off-set <input type="checkbox"/> Mislabeled <input type="checkbox"/> Fit/Function <input type="checkbox"/> Misaligned/off center <input type="checkbox"/>	Positioned Wrong <input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Misread <input type="checkbox"/> Turning Sequence <input type="checkbox"/>	OTHER : _____			